

# Lecture Notes in Physics

Edited by H. Araki, Kyoto, J. Ehlers, München, K. Hepp, Zürich  
R. Kippenhahn, München, H. A. Weidenmüller, Heidelberg  
and J. Zittartz, Köln

1–222

An Index  
and  
Other Useful Information



Springer-Verlag Berlin Heidelberg GmbH

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## TABLE OF CONTENTS

I. LECTURE NOTES IN PHYSICS 1969 - 1985 .....	5
1. Series List .....	7
2. Author Index .....	23
II. THE PUBLICATION PROCESS .....	53
1. How to Organize the Publication of Conference Proceedings .....	55
2. Essentials for the Preparation of Camera-Ready Manuscripts .....	57

## I. Lecture Notes in Physics 1969 - 1985

In 1979 when the series celebrated its tenth anniversary I wrote:

Ten years ago the series **LECTURE NOTES IN PHYSICS** was founded with two goals in mind: Firstly, very good lectures, especially those devoted to themes of actual research, should become accessible to a wider audience, and secondly, proceedings of conferences should appear quickly and at a lower price. In both cases, however, preference was given to genuine "Lecture Notes", i.e., contrary to concise articles in scientific journals written for the expert, the contributions to this series should present many different aspects of the problem in question and should be intelligible for a wider audience quite often including students or workers from other fields of research. At the same time "Lecture Notes" also means that the form of a text might be tentative and less accurate than usually required for a textbook or a monograph. However, although tentative in form, a high scientific standard in correctness and in selection of the material presented is asked for.

Thanks to the generous help of Springer-Verlag, to the efforts of organizers of conferences, and last, but not least, to the splendid cooperation of the authors, these goals have been reached in a satisfactory way. Very rarely does a research paper in physics outlive a period of about three years, and therefore it is very gratifying to observe that some of the volumes of our series are still highly esteemed after a much longer lapse of time. As for the second goal, quite a few of the proceedings in this series appeared within weeks after the meeting in question. Due to a steadily increasing number of good manuscripts submitted it should be possible for the benefit of their readers to raise the standards further and to open this series to more areas of research in physics and its applications.

In only five years the number of volumes published has doubled from 111 in 1979 to 222 in February 1985. In an editorial meeting we analyzed this phenomenon and decided on a slight change in our policy. Contributions from astrophysics and new areas like scientific computing have recently shown a significant increase; a broadening of the scope of our series is highly welcome and will be pursued further. However, we also observe a less welcome increase in the ratio of proceedings to genuine lecture notes. Here a correction seems in order, and in the future the latter will be en-

couraged. Proceedings are still welcome but we will give priority to topical meetings of a review character rather than to collections of technical research papers of interest to the specialist only.

Again, I would like to take this opportunity to thank the editors of the series and the many referees for their help. Their usually very elaborate criticism also helped many of the authors to find a better balanced and a more satisfactory presentation of their ideas.

W. Beiglböck  
Managing Editor

## 1. Series List

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## 2. Author Index

Aaberge, T. 106  
 Abbot, L.F. 221  
 Abe, Y. 217  
 Ablowitz, M.J. 130, 189  
 Aboul-el-Naga, N. 168  
 Abraham, D.B. 126  
 Abraham, N.B. 182  
 Abrikosov, A.A. 115  
 Abriola, D. 156  
 Abud, M. 201  
 Accardi, L. 173  
 Achenbach, J.D. 130  
 Ackermann, H. 172  
 Acrivos, A. 154  
 Acrivos, J.V. 172  
 Adams, J. 215  
 Adler, L. 130  
 Agarwal, G.S. 184  
 Agassi, J. 100  
 Aggarwal, R.L. 152, 177  
 Aghazadeh, M. 218  
 Aghion, F. 215  
 Agmon, S. 153  
 Aguirre, M. 201  
 Aharony, A. 149, 186  
 Ahlers, G. 132  
 Ahlrichs, R. 116  
 Ahluwalia, D.S. 70  
 Ahn, S. 130  
 Aizenman, M. 80, 116, 153, 216  
 Aizenman, M.L. 125  
 Akama, K. 176  
 Ake, T.B. 193  
 Akiyama, A. 215  
 Aksenov, V.L. 217  
 Al-Juwair, H.A. 156  
 Alamanos, N. 158  
 Alavi, B. 217  
 Alberico, W.M. 137  
 Albeverio, S. 80, 93, 106, 153, 173, 211  
 Albinski, J. 156  
 Alblas, B.P. 172  
 Albrand, P.S. 215  
 Albrecht, R. 178  
 Albrechtsen, F. 193  
 Aldaya, V. 135, 180, 201  
 Alder, B.J. 32, 84  
 Aldinger, R.R. 180  
 Alexander, J. 117  
 Alexander, J.M. 219  
 Alexander, W.M. 48  
 Alexanian, M. 32, 142  
 Alexeev, A.S. 64  
 Alfaro, J. 176  
 Alhassid, Y. 142  
 Ali, S.T. 130, 139, 201  
 Allais, J. 218  
 Allen, P.B. 115  
 Allen, R.E. 152  
 Alloul, H. 192  
 Alonso, J.L. 118  
 Alpert, Y. 128  
 Alpsancar, A. 152  
 Alsedà, L. 179  
 Alsedà i Soler, L.I. 179  
 Altarelli, G. 134  
 Altarelli, M. 177  
 Altenhoff, W.J. 42  
 Althoff, K.H. 137  
 Altrock, R.C. 114  
 Alvarez, J.M. 48  
 Alvarez-Estrada, R.F. 132, 179, 216  
 Amador, C. 142, 187  
 Amaldi, E. 124  
 Amaldi, U. 37  
 Amar, E. 106  
 Ambruster, C. 193  
 Amelinckx, S. 175  
 Ament, W.S. 130  
 Amico, N. d' 124  
 Ammerlaan, C.A.J. 175  
 Ammunategui, G.I. 180  
 Anand, G.V. 184  
 Ananthakrishna, G. 184  
 Anastaze, G. 201  
 Andersen, L.H. 213  
 Anderson, R.L. 135, 201  
 Ando, H. 114  
 Andrade, L. 142  
 André, J.C. 58  
 André, J.J. 113  
 André, J.-M. 113  
 André, P. 218  
 Andreev, V.V. 48  
 Andreo, R.H. 130  
 Andres, K.A. 149  
 Andrews, A. 218  
 Angelis, G.F. de 80, 173  
 Angell, C.A. 172  
 Angelova, M.N. 201  
 Angrand, F. 218  
 Anikin, S.A. 80  
 Antia, H.M. 114  
 Antoine, J.-P. 201  
 Antonio, G. dell' 80  
 Antonio, G.E. dell' 173  
 Aoki, H. 177  
 Arai, K. 152  
 Araki, H. 39, 80  
 Arecchi, F.T. 112  
 Arenhövel, H. 61, 108, 137  
 Arens, R. 162  
 Argyris, J.H. 58  
 Arickx, F. 201  
 Arik, M. 180  
 Arima, A. 144, 145, 161  
 Aristov, V.V. 112  
 Arko, A.J. 177  
 Arlinger, B. 141  
 Armbruster, P. 158, 219  
 Armistead, C.J. 177  
 Arnowitz, R. 208  
 Arnowitz, R.A. 176  
 Aroyo, M.I. 180, 201  
 Arponen, J. 198  
 Arshansky, R. 201  
 Artemenko, S.N. 217  
 Arvieux, J. 158  
 Ashcroft, N.W. 115, 154, 198  
 Ashtekar, A. 153, 202  
 Aslanoglou, X. 156  
 Aspect, A. 153  
 Assenbaum, H.J. 161  
 Atakishiyev, N.M. 180  
 Athay, R.G. 114  
 Atiyah, M. 208  
 Atiyah, M.F. 80  
 Atkins, V.R. 215  
 Atkinson, D. 85  
 Atta, C. van 12  
 Atta, E.H. 170  
 Atten, P. 72  
 Aubanell, A. 179  
 Aubin, M.J. 152  
 Aubry, S. 93  
 Audouze, J. 42  
 Auger, F. 211  
 Aulombard, R. 177  
 Aulombard, R.L. 152  
 Aumann, H.H. 193  
 Ausloos, M. 206  
 Authier, A. 112

- Averous, M. 133, 152  
 Avishai, Y. 198  
 Avrett, E.H. 193  
 Avron, J.E. 153  
 Awes, T.C. 219  
 Ayache, C. 217  
 Ayik, S. 171  
 Ayres, T.R. 114, 193  
 Ayroles, R. 217  
 Azcárraga, J.A. de 77, 135, 180, 201  
 Aziz, A.K. 58  
 Azman, A. 113  
 Azouni, A. 72  
 Baars, J. 152  
 Babinet, R. 117  
 Bach, A. 132  
 Back, B.B. 158, 219  
 Backe, H. 143, 158  
 Backer, G.A. 47  
 Bacry, H. 106, 201  
 Bader, B. 172  
 Badurek, G. 128  
 Baekler, P. 176  
 Baeriswyl, D. 217  
 Baesens, C. 179  
 Bagchi, A. 142  
 Bagchi, S.N. 120  
 Bailey, F.R. 41  
 Baj, M. 152, 177  
 Bak, P. 115, 217  
 Baker, A.J. 170  
 Baker, G.A. 198  
 Baker, G.R. 141  
 Baker, Jr.G.A. 142  
 Balaban, T. 116  
 Balachandran, A.D. 188  
 Balakrishnan, R. 189  
 Balakrishnan, V. 184  
 Baldereschi, A. 152  
 Baldy, M. 122  
 Balescu, R. 7  
 Balibar, F. 112  
 Baliunas, S.L. 193  
 Balkanski, M. 133  
 Ball, J.M. 195  
 Balleur, J.C. le 170, 218  
 Ballhaus Jr., W.F. 170  
 Ballhaus, W.F. 91  
 Balslev, E. 211  
 Bamberger, A. 91  
 Bampi, F. 199  
 Bander, M. 197  
 Bandermann, L.W. 48  
 Bando, H. 177  
 Bandurian, L.W. 193  
 Bangert, E. 152  
 Bangert, V. 112  
 Banks, T. 176  
 Bar-Eli, K. 199  
 Barbanskaja, I. 175  
 Barber, D.P. 215  
 Barberis, B. 212  
 Barbiellini, G. 134  
 Barcons, X. 199  
 Bardeen, J. 217  
 Barišić, S. 95,96  
 Barker, J.H. 117  
 Barnà, R.C. 158  
 Barnes, C.A. 219  
 Barnes, S.E. 217, 219  
 Barnett, M. 170  
 Baron, F. 218  
 Barouch, E. 216  
 Barrabes, C. 212  
 Barranco, F. 219  
 Barreau, G. 158  
 Barrera, R.G. 142  
 Barret, B.R. 40, 180  
 Bars, I. 135, 180  
 Barston, E.M. 21  
 Bartels, F. 141  
 Bartels, J. 118  
 Barthes, V. 85  
 Bartke, J. 221  
 Bartnik, R. 202  
 Bartoe, J.-D.F. 193  
 Bartoli, F.J. 152  
 Barton, J. 218  
 Barton, N.G. 64  
 Baruchel, J. 112  
 Barut, A.O. 98, 135, 180  
 Basdevant, C. 58  
 Basrak, Z. 211  
 Bass, R. 117  
 Bastard, B. 177  
 Bastard, G. 133, 152  
 Batallan, F. 177  
 Batina, J. 218  
 Baud, B. 193  
 Bauer, E. 217  
 Bauer, G. 133, 177  
 Bauhofer, W. 152  
 Baum, H.R. 141, 170, 218  
 Baur, G. 117  
 Bausset, M. 47  
 Baye, D. 156, 219  
 Bayliss, A. 170  
 Bayliss, S.C. 217  
 Baym, G. 198, 221  
 Beam, R.M. 141  
 Bechara, M.J. 156  
 Bechstedt, F. 152  
 Beck, H. 217  
 Becker, J. 196  
 Becker, J.D. 196  
 Becker, U. 56  
 Beckerman, M. 219  
 Beckers, J. 180, 201  
 Becklin, E.E. 42  
 Beckum, F.P.H. van 218  
 Bedell, K.S. 198  
 Bedÿn, P.J. 42  
 Beenakker, J. 31  
 Beene, J.R. 219  
 Beerens, J. 152  
 Beers, C.J. 177  
 Beeson, O.E. 48  
 Beest, B.W. van 180  
 Beevers, C. 199  
 Beghini, S. 219  
 Begis, D. 58  
 Behn, U. 206  
 Beichman, C.A. 193  
 Beiglböck, W. 94  
 Bel, L. 162  
 Belavin, A.A. 80  
 Beleznay, F. 122, 175  
 Beljaars, A.C.M. 136  
 Belkovich, O.J. 48  
 Bell, K. de 216  
 Bellia, G. 158  
 Bellissard, J. 153  
 Belmont, J.L. 215  
 Belovitsky, G.E. 158  
 Belvedere, G. 114  
 Bemis, Jr. C.E. 219  
 Ben-Artzi, M. 218  
 Bender, E.E. 218  
 Bender, H. 175  
 Bendiscioli, G. 55  
 Benfatto, G. 116  
 Bengtsson, R. 158  
 Benhar, O. 198  
 Benjamin, T.B. 91  
 Bennemann, K.-H. 172  
 Benofy, L.P. 142  
 Benoit, R. 218  
 Benque, J.P. 58, 141, 218  
 Benson, P.J. 193  
 Bentano, P. von 22  
 Benvenuti, P. 42  
 Benza, V. 216  
 Berényi, D. 213  
 Berezin, Y.A. 170  
 Berg, B. 126  
 Berg, O.E. 48  
 Bergé, P. 72, 132, 164  
 Berger, Ch. 191, 134  
 Berger, J.F. 158  
 Berger, M.J. 218  
 Berger, S.A. 218  
 Bergere, M.C. 126  
 Bergere, R. 61  
 Bergervoet, J.R. 197  
 Berghe, G. van den 201  
 Bergman, D.J. 154

- Bergmann, P.G. 100  
 Bergmann, V. 6  
 Bernard, C. 129  
 Bernard, J.J. 72  
 Bernard, V. 197  
 Bernardi, G.C. 213  
 Bernasconi, J. 153  
 Bernhardt, K.G. 156  
 Berrondo, M. 135, 142  
 Berry, S.D. 213  
 Berryman, J.G. 154  
 Bers, A. 93  
 Bertero, M. 85  
 Berthier, B. 158  
 Berthier, C. 217  
 Berthomieu, G. 125  
 Bertoni, A. 196  
 Bertozzi, W. 62  
 Bertrand, J. 106, 153, 173  
 Bertsch, G.F. 119, 119  
 Berulis, J.J. 42  
 Bervas, E. 217  
 Besmenov, I.V. 170  
 Bessis, D. 47  
 Bessis, G. 212  
 Bessis, N. 212  
 Bethge, K. 83  
 Bettess, P. 58  
 Betts, R.R. 156  
 Betz, H.-D. 213  
 Beveren, E. van 211  
 Bhanot, G. 208  
 Bhatt, R.N. 149  
 Bhattacharya, D.K. 199  
 Bhattacharya, G. 201  
 Bhattacharya, S. 217  
 Bhowmik, R.K. 117  
 Bialynicki-Birula, I. 98  
 Bibber, K. van 158  
 Bichet, P. 218  
 Bickel, W. 156  
 Bidaux, R. 149  
 Biedenbarn, L.C. 135, 139, 165, 201  
 Biegging, J. 42  
 Biel, J. 31, 84  
 Bilge, A.H. 180  
 Billey, V. 218  
 Bilz, H. 152  
 Bimbot, R. 158  
 Bincer, A.M. 135  
 Binder, K. 132, 149, 192  
 Bing-wen, S. 152  
 Binz, E. 139  
 Bird, D.M. 217  
 Birkelund, J.R. 117  
 Birman, J.L. 201  
 Bisch, P.M. 72, 105  
 Bishop, R.F. 142, 198  
 Biskupsi, G. 177  
 Bisplinghoff, J. 158  
 Bjeliš, A. 95, 96  
 Bjorken, J.D. 56  
 Blaich, Th. 219  
 Blair, D.G. 124  
 Blaizot, J.-P. 142, 198  
 Blakemore, J.S. 175  
 Blamont, J. 48  
 Blanchard, A. 212  
 Blanchard, P. 173  
 Blanchard, Ph. 106  
 Blanché, A. 132  
 Blanchet, L. 212  
 Blankenbecler, R. 32  
 Blann, M. 22, 158  
 Bleistein, N. 130  
 Bleuler, K. 197, 201  
 Blinc, R. 217  
 Blinowski, J. 152  
 Blom, C.E. 113  
 Blom, F.A.P. 133, 152  
 Blons, J. 158  
 Bloor, D. 113  
 Bluysen, H.J.A. 177  
 Boch, R. 152  
 Bochkarev, E.P. 152  
 Bocquet, J.P. 158  
 Boerner, W.-M. 130  
 Boffi, S. 55, 137  
 Bogert, D. 215  
 Bogolubov, N.N. 153  
 Bogoyavlensky, J. 93  
 Bohigos, O. 62, 137, 209  
 Bohlen, H.G. 117, 178  
 Böhm, A. 78, 94, 135, 139, 180  
 Böhm, M. 135  
 Böhm-Vitense, E. 114  
 Bohm-Vitense, E. 193  
 Bohne, W. 117  
 Boiti, M. 120  
 Bojarski, N.N. 130  
 Bollé, D. 130  
 Bolsterli, M. 197  
 Bombi, F. 215  
 Bondorf, J.P. 117, 171  
 Bonin, B. 158  
 Bonora, L. 180, 201  
 Bony, J.M. 126  
 Book, D. 141  
 Book, D.L. 170  
 Boon, J.P. 72  
 Boon, M. 50  
 Bopp, B.W. 193  
 Boppart, H. 152  
 Borckmans, P. 210  
 Borderie, B. 158  
 Borges, A.M. 219  
 Borie, E. 143  
 Boris, J. 141  
 Boris, J.P. 170, 218  
 Boschitz, E. 137  
 Bosco, B. 61  
 Boshkins, B.J. 58  
 Bosse, J. 172  
 Bossler, J. 213  
 Botta, E.F.F. 170  
 Bottcher, C. 213  
 Boucher, C. 212  
 Bouchiat, H. 149  
 Boucif, M. 210  
 Bouffard, S. 217  
 Boujot, J.P. 91, 218  
 Bountis, T. 93  
 Bountis, T.C. 179  
 Bourgeois, B. 130  
 Boury, A. 125  
 Bousquet, C. 152  
 Bowden, C. 182  
 Bowen, A.J. 64  
 Bowers, P.F. 193  
 Boya, L.J. 135  
 Boyarchuk, A.A. 114  
 Boyer, C.P. 189  
 Boyer, L. 210  
 Boyle, L.L. 180  
 Božek, E. 219  
 Božić, M. 180, 201  
 Bozoki, E. 215  
 Božović, I. 180  
 Božović, I.B. 113  
 Božović, N. 180  
 Bozsik, I. 215  
 Brachet, M.E. 218  
 Bracken, A.J. 135  
 Bradley, P.F. 218  
 Brami, B. 172  
 Bramley, J.S. 170  
 Brand, K. 215  
 Brand, R.A. 192  
 Brändas, E.J. 211  
 Brandenburg, S. 158  
 Brandow, B.H. 142  
 Brandt, N.B. 152  
 Brandt, R. 178  
 Bratteli, O. 80, 106, 116  
 Braun, E. 177  
 Braun-Munzinger, P. 33, 156, 219  
 Brédas, J.-L. 113  
 Bredif, M. 218  
 Breinig, M. 213  
 Breitenlohner, P. 160, 205  
 Bremer, H.D. 215  
 Brenig, L. 72, 84  
 Breskin, A. 178, 219  
 Breuer, H.F. 117  
 Breuer, M. 216  
 Breuer, R.A. 44



- Brewer, D.S. 115  
 Brey, J. 54  
 Brey, J.J. 132, 199  
 Brézin, E. 216  
 Brezinski, C. 47  
 Briand, J.P. 212  
 Bricmont, J. 80, 116, 153  
 Brieva, F. 168  
 Briggs, A. 177  
 Briley, W.R. 141  
 Brill, D.R. 14  
 Brill, J.W. 217  
 Brilliet, A. 212  
 Bringi, V.N. 154  
 Brissot, R. 158  
 Bristeau, M.O. 91, 218  
 Britt, H.C. 158  
 Brockmann, R. 197  
 Broeck, C. van den 179  
 Broeck, Ch. van den 84  
 Broeck, P.M. van den 180  
 Broeckhove, J. 201  
 Broek, P.M. van den 201  
 Broglia, R.A. 168, 219  
 Bromley, D.A. 156, 171  
 Brooks, J.S. 177  
 Bros, J. 116, 126  
 Broser, I. 177  
 Brossard, M. 134  
 Brouers, F. 172  
 Brout, R. 54  
 Brown, A. 193  
 Brown, G.E. 119  
 Brown, G.L. 136  
 Brown, T.M. 125  
 Brownlee, D.E. 48  
 Bruch, L.W. 198  
 Brüchle, W. 219  
 Bruckshaw, J. 215  
 Brueckner, G.E. 193  
 Bruge, G. 158  
 Brummell, M.A. 177  
 Bruneau, C.H. 170, 218  
 Bruneel, C. 112  
 Brunk, G. 199  
 Brünning, E. 153  
 Brunol, J. 112  
 Brunthaler, G. 152  
 Brushlinsky, K.V. 141  
 Brydges, D. 116  
 Brydges, D.C. 216  
 Buchholz, D. 80, 116, 153  
 Buchholz, W. 215  
 Buchwald, V.T. 64  
 Buck, B. 33  
 Buck, P. 171  
 Buckingham, M.J. 124  
 Budinich, P. 201  
 Budtz-Jørgensen, C. 158  
 Buendia, E. 198  
 Buenerd, M. 158  
 Bullough, R.K. 120  
 Buneman, O. 141  
 Bunge, M. 100  
 Buning, P.G. 218  
 Buras, B. 152  
 Burbea, J. 120  
 Burbidge, E.M. 42  
 Burdet, G. 106  
 Burdjuza, V.V. 42  
 Burgan, J.R. 85, 98  
 Burgdörfer, J. 213  
 Burger, J.D. 134  
 Burggraf, O.R. 59  
 Burke, B.F. 42  
 Burke, D.L. 134  
 Burke, L.A. 113  
 Burkhard, M. 213  
 Burkhardt, T.W. 206  
 Burnett, G.B. 48  
 Burrige, R. 70, 154  
 Büsch, R. 215  
 Buscombe, W. 114  
 Busse, W. 215  
 Bussmann-Holder, A. 152  
 Busza, W. 221  
 Butaud, P. 217  
 Butcher, P.N. 115  
 Butler, P.H. 135  
 Bütticker, M. 84  
 Buttler, H.v. 156  
 Buttler, W. 172  
 Buxton, B.F. 112  
 Buysse, M. 201  
 Buzano, E. 195  
 Byung-Ha Cho 201  
 Cabannes, H. 18, 19, 47, 90  
 Caderni, N. 109  
 Caginalp, G. 216  
 Calabretta, L. 158  
 Calais, J.L. 113  
 Calarco, J.R. 158  
 Caldas, M.J. 175  
 Callen, B. 221  
 Calmet, J. 143  
 Calogero, F. 80, 85, 98, 120, 189  
 Caloi, R. 137  
 Caltagirone, J.P. 72, 210  
 Camp, P.E. van 113  
 Campbell, C.E. 138, 142, 198  
 Campbell, D.K. 171  
 Campen, P.C. van 197  
 Canarutto, D. 212  
 Candel, S.M. 112  
 Candelas, P. 176  
 Cantoni, V. 196  
 Capizzi, M. 149  
 Çaplar, R. 156  
 Capuzzi, F. 55  
 Carbotte, J.P. 142  
 Carimalo, C. 134  
 Carifena, J.F. 135, 201  
 Carlo, A. di 170  
 Carlos, P.J. 137  
 Carmeli, B. 132  
 Carmelo, J. 217  
 Carmichael, H.J. 182  
 Carminatti, J. 212  
 Carmona, R. 106  
 Carneiro, K. 217  
 Caro, C.G. 148  
 Caroli, B. 210  
 Caroli, C. 210  
 Carroll, B.W. 125  
 Carruthers, P. 221  
 Cartage, T. 218  
 Carter, J.E. 170, 218  
 Carton, J.-P. 149  
 Carvalho, M. 152  
 Casagrande, F. 155  
 Casano, L. 137  
 Casas-Vásquez, J. 132, 164, 199  
 Casati, G. 93  
 Caspersen, L.W. 182  
 Casselman, T.N. 152  
 Cassidy, D.C. 100  
 Casstevens, B.J. 215  
 Castañós, O. 135  
 Castanos, Q. 180  
 Castellani, C. 149, 206, 216  
 Castner, T.G. 177  
 Castro Rizzo, D.M. de 219  
 Castro, C. di 149, 206, 216  
 Caswell, J.L. 124  
 Catillon, Ph. 62  
 Catlow, C.R.A. 166, 166  
 Caudell, T.P. 125  
 Caughey, D.A. 218  
 Causon, D.M. 218  
 Cauvin, B. 117, 215  
 Cavaliere, A. 124  
 Cavallaro, S. 219  
 Cavenett, B.C. 122  
 Cea, J. 85  
 Ceperley, D.M. 142  
 Ceplecha, Y. 48  
 Cerisier, P. 210  
 Cez, P. 112  
 Cesarsky, D.A. 42  
 Ceuleneer, R. 156  
 Chabert, A. 215  
 Chacón, E. 135  
 Chadani, K. 85  
 Chaikin, P.M. 217  
 Chakraborty, T. 198  
 Chamseddine, A.H. 176, 208  
 Chan, C.C. 145

- Chan, W.-K. 91  
 Chandler, C. 130  
 Chang, C.C. 144  
 Chang, H.R. 177  
 Chang, J.L.C. 218  
 Chang, S.-C. 218  
 Chankeun Jue 201  
 Chantre, A. 122  
 Chao, A.W. 215  
 Chao, K.A. 115  
 Chapman, D.R. 141  
 Charles, P. 211  
 Charnay, G. 136  
 Charpak, G. 178  
 Charraut, D. 112  
 Chatot, J.J. 141, 170, 218  
 Chaturvedi, S. 184  
 Chau, L.-L. 180, 189, 201  
 Chaussee, D.S. 218  
 Chauve, M.P. 210  
 Chauvin, J. 158  
 Chaves, L. 209  
 Chazarain, J. 126  
 Chechik, R. 219  
 Cheeger, J. 160  
 Cheeseaman, P.A. 172  
 Chemtob, M. 137  
 Chen, B.-M. 141, 170  
 Chen, H. 141  
 Chen, J.-Q. 135  
 Chen, M.-B. 215  
 Chen, T. 217  
 Chen, Y.M. 130  
 Cheng, K.Y. 177  
 Cheng, L.-Y. 154  
 Cheng, Sin-I 41, 47  
 Cheng, W.K. 144, 145  
 Cheret, R. 218  
 Cherny, S.G. 170  
 Chevalier, R. 217  
 Cheveigné, S. de 210  
 Chiang, T.H. 117  
 Chiba, M. 177  
 Chidley, B.G. 215  
 Chikazumi, S. 177  
 Childress, S. 154  
 China, F.J. 189, 201, 205  
 Chirikov, B.V. 93  
 Chisholm, J.S.R. 47, 116  
 Chitre, S.M. 114  
 Cho, A.Y. 177  
 Cho, Y. 182  
 Chohan, V. 215  
 Choquet-Bruhat, Y. 202, 212  
 Chorin, A.J. 58  
 Christensen-Dalsgaard, J. 125  
 Christiansen, P.L. 64  
 Christillin, P. 62  
 Christodoulou, D. 153  
 Chroboczek, J.A. 177  
 Chudnovsky, D.V. 120, 126, 180  
 Chudnovsky, G.V. 120, 126  
 Churchill, R.C. 93  
 Churchwell, E. 42  
 Chushkin, P.I. 170  
 Chwang, A.T. 21, 64  
 Chyba, T. 182  
 Ciarlet, P.G. 195  
 Cierjacks, S. 158  
 Ciment, M. 141  
 Ciminiera, D. 196  
 Cindro, N. 22, 156, 211  
 Ciofi Degli Atti, C. 86, 137  
 Cisternas, A. 85  
 Clair, J.J. 112  
 Clark, J.W. 138, 142, 198  
 Clark, W.G. 217  
 Clausen, K. 152  
 Clausnitzer, G. 30  
 Claverie, P. 84  
 Clayes, C. 175  
 Clegg, P. 193  
 Clement, M. 210  
 Clemente, M. 219  
 Clerc, H.-G. 158, 219  
 Clerc, H.C. 158  
 Climenhaga, J.L. 114  
 Cloutman, L.D. 141  
 Coceva, C. 137  
 Cochard, G. 134  
 Cochrane, R.W. 217  
 Cocu, F. 158  
 Coeffe, Y. 141  
 Coester, F. 130, 142, 162, 198  
 Cohen, J.M. 130  
 Cohen, M.H. 154  
 Cohen-Tenoudji, F. 112  
 Coisson, R. 112  
 Colbourn, E.A. 166  
 Colella, P. 25, 141, 170, 218  
 Coleman, M. 182  
 Coles, D. 136  
 Collet, P. 74, 80, 106, 116, 173  
 Colliex, C. 112  
 Collins, M.T. 156  
 Collins, T.C. 113  
 Colwell, S. M. 93  
 Combe, P. 106, 153, 173  
 Combes, J.-M. 116  
 Combes, J.M. 80, 211  
 Comincioli, V. 58  
 Coniglio, A. 149  
 Conjeaud, M. 158  
 Connes, A. 80  
 Conte, R. 149  
 Conti, P.S. 42  
 Contopoulos, G. 93  
 Cook, G.P. 135  
 Coon, S.A. 142  
 Cooper, A.J. 125  
 Cooper, J. 130  
 Cooper, J.R. 95, 96  
 Copestake, A.P. 172  
 Coppersmith, S.M. 217  
 Coq, G. le 218  
 Corbett, J.E. 175  
 Corcos, G.M. 136  
 Corish, J. 166  
 Cormack, A.N. 166  
 Cormier, T.M. 156  
 Cornille, H. 85  
 Corrigan, E. 129, 151  
 Cosgrove, C.M. 124  
 Cosman, E.R. 156, 219  
 Cosnard, M. 179  
 Costa, S. 61, 62  
 Cote, J. 218  
 Cotta-Ramusino, P. 180, 201  
 Cotton, J.P. 172  
 Coudray, C. 85  
 Couët, B. 141, 218  
 Countryman, P. 158  
 Courau, A. 134  
 Courtès, G. 42  
 Coutillot, V. 85  
 Couture, M. 135  
 Cox, A.N. 125  
 Cox, J.P. 125  
 Cracknell, A.P. 135  
 Cram, L.E. 114  
 Cramon, K.M. 213  
 Crancon, J. 158  
 Crawford, H.J. 178  
 Creff, R. 218  
 Crepon, M. 58  
 Crighton, D.G. 136  
 Cristoloveanu, S. 177  
 Croquette, V. 210  
 Crossman, R.G. 124  
 Crowley-Milling, M.C. 215  
 Cruvellier, P. 48  
 Cue, N. 144, 145  
 Cuer, M. 85  
 Cugnon, J. 221  
 Cujek, B. 219  
 Cullen, M.J.P. 91  
 Cuny, Y. 114  
 Currat, R. 217  
 Curry, J.H. 116  
 Cusson, R.Y. 171  
 Cuvelier, C. 141, 218  
 Cvelbar, F. 22  
 Czachor, A. 115  
 Czerwonko, J. 115  
 Czosnyka, T. 215  
 Czyz, J. 180  
 Dabrowski, J. 142

- Dadone, A. 218  
 Dafermos, C.M. 98, 195  
 Dagleish, P.A. 128  
 Dahl, L. 215  
 Dahl, P. 213  
 Dale Martin, E. 47  
 Dalitz, R.H. 77, 211  
 Dalle-Vedove, W. 105  
 Dalmann, B.-K. 48  
 Dalsem, W.R. van 218  
 Dalton, B.J. 135, 182  
 Dam, H. van 165  
 Damjanović, M. 113, 180, 201  
 Damour, T. 124  
 Dana, I. 106  
 Daniel, R.R. 193  
 Daniëls, H.A.M. 116  
 Daoxing, X. 116  
 Darrozes, J.S. 163  
 Daru, V. 170  
 Das, M.P. 187  
 Dasso, C.H. 117  
 Date, M. 177  
 Dattagupta, S. 184  
 Daubechies, I. 173  
 Daubert, A. 58  
 Dautcourt, G. 109  
 Dautray, R. 218  
 David, D. 189  
 David, P. 158  
 Davidson, A.M. 152, 177  
 Davies, B.L. 135, 201  
 Davies, E.B. 153  
 Davis, C.L. 198  
 Davis, I. 173  
 Davis, R.E. 125  
 Davis, R.L. 218  
 Davis, R.T. 170  
 Davis, R.W. 141, 218  
 Davis, S.V. 215  
 Day, B.D. 142  
 Dayras, R. 158  
 Dayras, R.A. 117  
 De, J.N. 117  
 Deák, P. 122, 175  
 Declerck, G. 175  
 Deconinck, H. 141  
 Deenen, J. 180  
 Degasperis, A. 85, 98, 120  
 DeGrand, Th. 221  
 Dehaes, I.C. 213  
 Dehesa, J.S. 161, 209  
 Dehmelt, H. 143  
 Deift, P. 153  
 Deitinghoff, H. 215  
 Deiwert, G.S. 218  
 Del Zoppo, A. 158  
 Delaunay, B. 219  
 Delaunay, J. 219  
 Délery, J. 148  
 Delhalle, J. 113  
 Dell, G.F. 215  
 Delorme, J. 137  
 Delos, J.B. 93  
 Delsanto, P.P. 62  
 Delsemme, A.H. 48  
 Delshams, A. 179  
 Deltour, A.R. 210  
 Demaret, P. 218  
 Demartini, L. 196  
 Demianski, M. 14, 109  
 Demirdzic, I. 141  
 Dempsey, I. 152  
 Denardo, G. 201  
 Dennis, R.B. 152  
 Dennis, S.C.R. 141, 170, 218  
 Dere, K.P. 193  
 Derek, W. R. 9  
 Derehi, T. 180  
 Derenchuk, V. 215  
 Derks, W.M. 197  
 Derriba, B. 149  
 Deruelle, N. 212  
 Dervieux, A. 141, 218  
 Descouvemont, P. 219  
 Deser, S. 160  
 DeSerio, R. 213  
 Desert, F.X. 212  
 Desgranges, H.-U. 216  
 Desgraz, J.C. 58, 218  
 Desideri, J.A. 218  
 Deursen, A.P.J. van 177  
 Deutscher, G. 149  
 Deutschman, K. 215  
 Deville, M. 218  
 Devooght, J. 213  
 Devreese, J.T. 113, 122, 177  
 Dewagenaere, P. 218  
 Dewel, G. 210  
 Dewitt-Morette, C. 106  
 DeYoung, P. 219  
 De-Xun Fu 218  
 Dhar, D. 184  
 Dias deDeus, J.V.C. 179  
 Dick, E. 170, 218  
 Didier, G. 152  
 Didyk, A.Yu. 217  
 Diebel, M. 117  
 Diehl, H.W. 216  
 Dietl, T. 177  
 Dietz, K. 37  
 Dietz, W. 205  
 Dijkstra, D. 141  
 Dimock, J. 25  
 Din, A.M. 135  
 Diperna, R.J. 195  
 Diquattro, S. 215  
 Dirl, R. 135, 180, 201  
 Dittrich, W. 220  
 Divatia, A.S. 215  
 Dixon, M. 166  
 Djabbarah, N.F. 105  
 Dmitrieva, O.E. 170  
 Dmowski, L. 152  
 Dobado, A. 168  
 Dobrev, V.K. 63  
 Dobrowolska, M. 152  
 Dobrushin, R.L. 80  
 Dodson, C.T.J. 212  
 Doebner, H.D. 139  
 Dohan, D.A. 215  
 Dohm, V. 216  
 Dohnanyi, J.S. 48  
 Dohrn, D. 93  
 Dolan, L. 180  
 Dollard, J.G. 130  
 Doman, B.G.S. 217  
 Domany, E. 149  
 Domiaty, R.Z. 139  
 Dominici, D. 162  
 Dominicis, C. de 192, 216  
 Donn, B. 48  
 Donnely, R.A. 187  
 Donsker, M.D. 173  
 Doplicher, S. 80  
 Doren, V.E. van 113  
 Dorenbos, T. 215  
 Dorfman, J.R. 132  
 Dorizzi, B. 189  
 Dornhaus, R. 177  
 Dorren, J.D. 193  
 Douglas, D.R. 215  
 Douglas, J. 58  
 Douglass, D.H. 125  
 Dover, C.B. 33  
 Downes, D. 42  
 Dózsa, L. 175  
 Draayer, J.P. 135  
 Dragon, N. 37  
 Dragonette, L.R. 130  
 Dragt, A.J. 215  
 Drake, S.A. 193  
 Drapatz, S. 48  
 Dravins, D. 114  
 Drechsel, D. 62, 108, 137  
 Drechsler, W. 67  
 Dresselhaus, G. 152  
 Dresselhaus, M.S. 152  
 Drever, R.W.P. 212  
 Drevermann, J. 156  
 Drew, D.A. 154  
 Drexler, J. 158  
 Drieschner, M. 99  
 Droz, M. 84, 183, 206  
 Droz-Vincent, Ph. 162  
 Drozd, S. 171  
 Drummond, P.D. 182

- Duan, H.-M. 217  
 Dubois, H. 177  
 Dubois, M. 72, 132, 164  
 Dubois-Violette, E. 72, 210  
 Dubus, A. 213  
 Düchs, D.F. 91  
 Dück, P. 156  
 Duclos, P. 106, 211  
 Ducruix, J. 85  
 Duggan, D.D. 217  
 Duhamel, G. 158  
 Duhm, H.H. 158  
 Dujardin, F. 177  
 Dujardin, T. 218  
 Duke, D.W. 191  
 Dukler, A.E. 218  
 Dukowicz, J.K. 141  
 Dulieu, B. 72  
 Dulikravich, D.S. 141  
 Dullemond, C. 211  
 Dumas, J. 217  
 Dumont, H. 219  
 Dumont, R. 48  
 Dumont, S. 114  
 Duncan, D.K. 193  
 Dunne, P.C. 58  
 Dünneweber, W. 156  
 Dupont, J.T. 58  
 Dupree, A.K. 193  
 Dupuy, M. 152  
 Durand, M. 158  
 Durand, Ph. 113  
 Durney, B.R. 114  
 Dürr, H.P. 160  
 Duval, Ch. 106  
 Duvall, T. 125  
 Duvaut, G. 195  
 Dvořák, V. 115, 217  
 Dwivedi, Pt.J.H. 14  
 Dwyer, H.A. 141, 218  
 Dyakonov, D.I. 181  
 Dyke, M. van 141  
 Dziembowski, W.A. 125  
 Dzioma, B. 136  
 Dzyaloshinskii, I.E. 115  
 Eaglesham, D.J. 217  
 Ebbets, D. 114  
 Eberhard, A. 179  
 Eberhard, K.A. 156  
 Eberth, J. 168  
 Eckelmann, H. 136, 148  
 Eckert, P. 201  
 Eckmann, J.-P. 74, 80, 116  
 Economou, N.A. 152  
 Eddy, J.A. 193  
 Edelen, D.G.B. 174  
 Edrei, M. 216  
 Edwards, C. 124  
 Edwards, D.E. 218  
 Edwards, S. 193  
 Edwards, T.R.M. 215  
 Effros, E.G. 80  
 Egan-Krieger, G.v. 215  
 Egelhaaf, Ch. 117  
 Eger, D. 152  
 Eguchi, T. 176, 208  
 Ehlers, J. 28, 100, 153  
 Ehrich, A. 215  
 Eichenherr, H. 151, 180, 201  
 Eichhorn, G. 48  
 Eisele, I. 196  
 Eiseman, P.R. 141  
 Eisenberg, J.M. 137  
 Eisenriegler, E. 216  
 Eisenstaedt, J. 212  
 Ekiel Jezewska, M.L. 199  
 Ekstein, H. 135  
 Elhadad, J. 106  
 Elizalde, E. 216  
 Ellis, J. 160  
 Ellis, R.S. 80  
 Elsässer, H. 48  
 Elston, R. 193  
 Elston, S. 213  
 Elston, S.B. 213  
 Elworthy, K.D. 106, 153, 173  
 Emch, G.G. 80, 173  
 Emerson, J.P. 42  
 Emrich, K. 142, 198  
 Encrenaz, P. 42  
 Enden, G. 218  
 Enderby, J.E. 172  
 Enderlein, R. 133, 152  
 Endo, J. 176  
 Enge, H. 219  
 Engelbrecht, C.A. 155  
 Engels, J. 197  
 England, J.B.A. 117  
 Englert, F. 201  
 Englert, T. 177  
 Engvold, O. 193  
 Enkelmann, V. 113  
 Enss, V. 116, 211  
 Enter, A.C.D. van 116  
 Enz, E.P. 54, 84, 104  
 Epelboin, Y. 112  
 Eposito, P. 218  
 Erb, K.A. 156  
 Erdmann, J.C. 1  
 Ericson, T.E.O. 137  
 Eriksson, L.-E. 170  
 Eriş, A. 180  
 Erig, W. 179  
 Erneux, T. 182  
 Ernst, F.J. 135, 189, 205  
 Ernst, J. 158  
 Es, C.M. van 152  
 Esaki, L. 133, 152  
 Escribe-Filippini, C. 217  
 Essel, H. 117  
 Essen, A. van den 126  
 Esterlund, R.A. 158  
 Etteger, A. van 177  
 Eu, B.Ch. 199  
 Evans, D.E. 116  
 Evans, R. 172  
 Evers, D. 156  
 Eversheim, P.D. 215  
 Eyre, D. 130  
 Eyrich, W. 158  
 Fabbri, R. 212  
 Fabbro, B. 158  
 Fabrocini, A. 198  
 Fackerell, E.D. 124  
 Faddeev, L.C. 80  
 Faessler, A. 119, 138, 144, 145, 168, 197  
 Faidi, S. 171  
 Fairlie, D.B. 129  
 Falco, D. de 80, 173  
 Falcovitz, J. 218  
 Falgarone, E. 42  
 Falkovskii, L.A. 133  
 Falkovsky, L. 152  
 Falvard, A. 134  
 Fannes, M. 116  
 Fantner, E.J. 122, 152  
 Fantoni, S. 138, 142, 198  
 Faraggi, H. 158  
 Farago, P.S. 143  
 Farge, M. 218  
 Faria, M. 106  
 Faris, W.G. 173  
 Farjam, M. 198  
 Farley, F.J.M. 143  
 Farnsworth, D. 14  
 Farrar, G.R. 181  
 Farrell, J.A. 215  
 Farvacque, L. 158  
 Farwell, R.S. 116  
 Fau, C. 152  
 Faurie, J.P. 152  
 Fauve, S. 210  
 Favini, B. 170  
 Faymonville, R. 177  
 Fazekas, P. 115  
 Fazzio, A. 175  
 Fechtling, H. 48  
 Federbusch, P. 116  
 Federici, L. 137  
 Federman, P. 135  
 Fehske, H. 206  
 Feige, G. 178  
 Feigelson, E.D. 193  
 Feigenbaum, M.J. 93, 153, 179  
 Feit, Z. 152  
 Feix, M.R. 85, 98

- Feldmeier, H. 171  
 Felsen, L.B. 130  
 Fenton, J.D. 64  
 Ferenczi, G. 122, 175  
 Ferguson, R.E. 141  
 Ferguson, R.L. 158, 219  
 Ferrara, S. 116, 208  
 Ferrari, R. 106  
 Ferreira, L.S. 211  
 Ferwerda, H.A. 112  
 Feshbach, H. 22  
 Fetter, A.L. 142, 186  
 Fick, D. 30  
 Fieck, G. 167  
 Fiedler, H. 75, 76  
 Fiedler, H.E. 136  
 Field, J.H. 134, 191  
 Field, R.D. 191  
 Fierz, M. 15  
 Figari, R. 106  
 Figielski, T. 175  
 Fijalkow, E. 85, 98  
 Fink, H.J. 22  
 Fink, J. 14  
 Fink, M. 112  
 Finley, D. 189  
 Fischer, A.E. 14  
 Fischer, H.R. 139  
 Fischer, R.D. 158  
 Fisher, B. 217  
 Fisher, M.E. 186  
 Fiszdon, W. 195  
 Fitch, W. 125  
 Fitzpatrick, W.J. 149  
 Fix, G. 58  
 Flaherty, E.J. 46  
 Flaherty, F.J. 202  
 Flath, D.E. 201  
 Flato, M. 153  
 Flax, L. 130  
 Fleet, R.W. 170  
 Fletcher, C.A.J. 141, 170, 218  
 Flietner, H. 175  
 Fliss, G. 215  
 Flocard, H. 171  
 Flores, J. 142, 218  
 Flusov, G.V. 152  
 Focke, P.R. 213  
 Fogedby, H.C. 131  
 Fokas, A.S. 189  
 Foley, K.J. 221  
 Folger, H. 213  
 Folkmann, F. 213  
 Fonseca, A.C. 211  
 Fonstad, C.G. 152  
 Fontaine, G. 112  
 Fontaine, J.-R. 153, 216  
 Fontaine, J.R. 80  
 Fontich, E. 179  
 Fontich Julia, E. 179  
 Ford, J. 28, 93  
 Ford, P.J. 218  
 Ford, Jr. J.L.C. 156, 219  
 Forest, I. 158  
 Forest, Jr. C.W. de 137  
 Forger, M. 139  
 Forró, L. 217  
 Forsyth, J.B. 112  
 Fortes, M. 142, 198  
 Fortuna, G. 219  
 Fouan, J.P. 215  
 Fougéron, C. 215  
 Fourcaudot, G. 217  
 Fowler, A.B. 177  
 Fowler, L.A. 124  
 Foy, R. 114  
 Fozooni, P. 177  
 Fradkin, E.S. 176  
 Fraeijis de Veubeke, B. 41  
 Fraenkel, Z. 219  
 Frahn, W.E. 33, 156  
 Francois, C. 163  
 Franczak, B. 215  
 Frank, A. 135, 180  
 Franz, J.R. 172  
 Frazer, W.R. 191  
 Fredenhagen, K. 116, 153  
 Freed, J.H. 184  
 Freedman, J.E. 156  
 Freeman, R. 211  
 Freeman, R.M. 156  
 Freiesleben, H. 117  
 Freifelder, R.H. 219  
 Freiländer, P. 172  
 French, J.B. 119, 209  
 Frese, H. 215  
 Freund, A.K. 112  
 Freund, P.G.O. 116, 129, 176  
 Frez, A. 48  
 Fricke, B. 143  
 Fricke, K.J. 42  
 Fried, H.M. 106  
 Friedrich, H. 171, 202  
 Friedrich, R. 170  
 Friend, R.H. 217  
 Frigerio, A. 80  
 Friman, B.L. 142, 198  
 Frisch, U. 141, 179  
 Frischkorn, H.J. 213  
 Frishman, Y. 32  
 Fritsch, G. 196  
 Fritts, M.J. 218  
 Fritz, W. 170  
 Fritzschn, H. 116, 118, 181  
 Fröhlich, H. 156  
 Fröhlich, J. 73, 80, 153, 160, 173, 216  
 Frois, B. 137  
 Frolov, V.V. 217  
 Fromm, J. 141  
 Fronsdal, C. 153  
 Frullani, S. 137  
 Fry, M.A. 170, 218  
 Fuchs, H. 117  
 Fuchs, L. 218  
 Fuchssteiner, B. 216  
 Fujii, K. 141  
 Fujii, Y. 176  
 Fujimoto, H. 217  
 Fujisaka, H. 132, 176  
 Fujiyasu, H. 152  
 Fuksa, J. 201  
 Fukuda, R. 176  
 Fukuda, T. 156, 176  
 Fukuhara, A. 176  
 Fukushima, M. 173  
 Fukuyama, H. 177, 217  
 Fulifiski, A. 115  
 Fulling, S.A. 176  
 Fumi, F.G. 201  
 Fung, Y.C. 148  
 Furdin, G. 177  
 Furdyna, J.K. 152, 177  
 Furniss, J. 42  
 Furuno, K. 156  
 Fyfe, D.E. 218  
 Gabriel, M. 125  
 Gabutti, B. 170  
 Gadella, M. 180  
 Gadioli, E. 22  
 Gäggeler, H. 219  
 Gai, M. 156  
 Gail, H.-P. 114  
 Gaillard, M.K. 160  
 Galazka, R.R. 133, 152, 177  
 Galin, J. 117, 158  
 Gallavotti, G. 20, 54, 80  
 Galletto, D. 212  
 Gallone, F. 135  
 Gambhir, Y.K. 161  
 Gammel, J.L. 47, 142  
 Gammelin, P. 48  
 Gamp, A. 117  
 Garcia, A. 222  
 García-Colín, L.S. 132, 199  
 García-Díaz, A. 135  
 Garczynski, W. 106  
 Gardès, D. 158  
 Gårding, L. 73  
 Gardner, J.H. 218  
 Garibotti, C.R. 213  
 Garreta, G. 112  
 Garrett, J.D. 33  
 Garrido, L. 84, 106, 132, 179, 199, 216  
 Gary, S. 168  
 Gaspard, J.P. 113

- Gastebois, J. 178  
 Gatignol, R. 36, 141  
 Gatos, H.C. 175  
 Gatski, T.B. 218  
 Gatty, B. 117, 158  
 Gaul, G. 117, 156  
 Gaunaurd, G. 130  
 Gavron, A. 158  
 Gawedzki, K. 153  
 Gaworzewski, P. 175  
 Gawron, T.R. 152  
 Gazeau, J.P. 135  
 Gázquez, J.L. 187  
 Geertsma, W. 172  
 Gefen, Y. 149  
 Gehren, T. 114  
 Geisel, T. 179  
 Gelbke, C.K. 33, 117  
 Geldart, D.J.W. 216  
 Gelmont, B.L. 133, 152  
 Gelten, M.J. 152  
 Geltenbort, P. 158  
 Genzow, D. 152  
 Geoffroy, K.A. 117  
 George, C. 28  
 Georgii, H.O. 16  
 Geppert, U. 206  
 Geramb, H.V.v. 89  
 Gerasimenko, N.N. 175  
 Gerasimov, B.P. 170  
 Gerdjikov, V.S. 116  
 Gerschel, A. 84  
 Gersten, A. 142  
 Gersten, K. 170  
 Gervais, J.L. 73, 160  
 Gerward, L. 112  
 Gesztesy, F. 211  
 Geymonat, G. 195  
 Ghaboussi-Farhad, F. 106  
 Ghez, P. 106  
 Ghia, K.N. 170, 218  
 Ghia, U. 218  
 Ghirardi, G.C. 135, 201  
 Ghoniem, A.F. 170  
 Ghorayeb, A.M. 217  
 Ghosh, B. 201  
 Ghosh, S.K. 193  
 Giampapa, M.S. 193  
 Giannini, M. 55, 62  
 Giannoni, M.-J. 209  
 Gibbons, G.W. 116, 160  
 Giber, F. 122  
 Giber, J. 122, 175  
 Gibson, A.G. 130  
 Gibson, D.M. 193  
 Giebutowicz, T. 152  
 Giese, R.H. 48  
 Giese, U. 170  
 Gil, S. 219  
 Gilchrist, A. 58  
 Gill, J.C. 217  
 Gillan, M.J. 166  
 Gillett, F. 193  
 Gilliland, R.L. 193  
 Gillot, Ch. 179  
 Gilman, P.A. 114  
 Gimenez, M. 210  
 Gindler, J.E. 158  
 Ginibre, J. 120  
 Ginocchio, M. 106  
 Giongia, R.S. 182  
 Giordano, G. 137  
 Giovannini, N. 106, 135  
 Girard, J. 117  
 Girardeau, M.D. 142  
 Girardi, G. 135, 180  
 Girod, M. 158  
 Girolami, B. 137  
 Gitsu, D.V. 152  
 Gitterman, M. 216  
 Glasow, R. 117  
 Glassgold, A.E. 193  
 Glaz, H.M. 170, 218  
 Glebocki, R. 114  
 Gleisberg, F. 217  
 Glendenin, L.E. 158  
 Glimm, J. 25, 153  
 Glotz, P. 100  
 Glowinski, R. 58, 91, 195, 218  
 Gmelin, W. 152  
 Gobbi, A. 158, 168  
 Gochev, I.G. 206  
 Godbole, R.M. 208  
 Goddard, J.C.H. 135  
 Goddard, P. 77, 129  
 Goedgebuer, J.P. 112  
 Goeke, K. 171, 209  
 Goerlach, U. 158  
 Goettig, S. 177  
 Gogny, D. 158  
 Goldberg, J.N. 212  
 Goldberg, L. 114, 193  
 Goldberg, M. 134  
 Goldflam, R. 197  
 Goldhirsch, I. 132  
 Goldin, G.A. 6  
 Goldschmidt, H. 180  
 Goldstein, C.I. 130  
 Goldstein, S. 153  
 Gollub, J.P. 132, 210  
 Golub, L. 193  
 Gomez, G. 179  
 Gómez, J.M.G. 161, 209  
 Gomis, J. 162  
 Gönnerwein, F. 158  
 Gontier, J. 215  
 Gonzales Lepera, C.E. 213  
 Gonzales-Arroyo, A. 216  
 Goodwin, M.W. 177  
 Goorjian, P.M. 218  
 Gor'kov, L. 217  
 Gordon, B. 115  
 Gorini, V. 80, 135  
 Gornik, E. 133, 152, 177  
 Gorski, J. 218  
 Gosman, A.D. 141  
 Gossard, A.C. 177  
 Gotay, M.J. 135  
 Goto, A. 215  
 Gottlieb, D. 218  
 Gough, D.O. 125  
 Gourdin, M. 37  
 Goussebaile, J. 218  
 Gouttebroze, P. 114  
 Govindarajan, J. 166  
 Grabisch, K. 117  
 Graeff, W. 112  
 Gräff, G. 143  
 Graffi, S. 211  
 Graham, R. 84  
 Grammaticos, B. 137, 189  
 Grange, P. 198  
 Granger, R. 152  
 Grant, D.E. 182  
 Grappin, R. 84  
 Grasdalen, G.L. 42  
 Grashof, J. 170  
 Grassie, A.D.C. 152, 177  
 Grassberger, P. 179  
 Graves-Morris, P.R. 47  
 Graw, G. 30  
 Grawert, G. 219  
 Gray, D.F. 114  
 Gray, S. 130  
 Greco, M. 134  
 Grecos, A.P. 7  
 Green, F. 198  
 Green, H.S. 180  
 Green, J.E. 148  
 Green, M.S. 54  
 Green, P. 129  
 Grégoire, C. 219  
 Gregoire, J.P. 218  
 Gregorio, S. de 173  
 Greiner, A. 158  
 Greiner, W. 156, 168, 171  
 Grenet, G. 135  
 Gressier, P. 217  
 Gresslehner, K.H. 152  
 Greub, W.H. 139  
 Griepentrog, M. 175  
 Griffijn, J.J. 171  
 Griffioen, K.A. 158  
 Grigoryev, Y.N. 141

- Grimm, P. 178  
 Grimmeis, H.G. 122  
 Grimshaw, R.H.J. 64  
 Grinstein, F. 218  
 Grioli, G. 195  
 Grodzins, L. 219  
 Groeneveld, K.O. 213  
 Grosch, C.E. 218  
 Gross, D.H.E. 33, 177, 168  
 Gross, E.P. 84  
 Grosse, H. 116  
 Grosse, P. 152  
 Grossman, A. 211  
 Grossmann, A. 106  
 Grossmann, S. 84  
 Groth, H.G. 114  
 Gruber, C. 60  
 Gruber, Ch. 116, 153  
 Gruber, H. 217  
 Gruber, R. 91  
 Grümmer, F. 171, 209  
 Grün, E. 48  
 Grundland, A.M. 201  
 Grüneis, F. 196  
 Grüner, G. 65, 217  
 Guardiola, R. 138, 142, 198  
 Guazzelli, E. 210  
 Guckenheimer, J. 179  
 Guéron, M. 172  
 Guerra, F. 25, 80, 93, 106, 173  
 Guerreau, D. 117  
 Guignard, G. 215  
 Guillemot, H. 158  
 Guillot, G. 122  
 Guinan, E.F. 193  
 Guirguis, R.H. 170  
 Guiu-Roux, J. 141, 170  
 Guj, G. 170  
 Guldner, Y. 177  
 Güler, Y. 201  
 Gull, S.F. 42  
 Gul'ýas, L. 213  
 Gummich, U. 177  
 Günaydin, M. 180  
 Gunin, J.F. 134  
 Gunton, J.D. 132, 183  
 Guo, D.S. 205  
 Gurd, D.P. 215  
 Gürses, M. 180, 205  
 Gürsey, F. 180  
 Gurtin, M.E. 195  
 Gurtovenko, E.A. 114  
 Gusdal, I. 215  
 Gusyakov, V.K. 64  
 Gutbrod, H.H. 178  
 Guthmann, C. 210  
 Gutierrez, J. 85, 98  
 Gutiérrez, G. 142  
 Gutzwiller, M.C. 93  
 Guy, D.R.P. 217  
 Guyon, E. 72  
 Guyot, H. 217  
 Gyorffy, B.L. 115  
 Haag, R. 54, 153  
 Haas, F. 211  
 Haase, W. 218  
 Habiballah, M. 218  
 Habing, H.J. 42  
 Habs, D. 158, 178  
 Haddon, E.W. 170  
 Hadni, A. 112  
 Haeberli, W. 30  
 Haensel, P. 142, 198  
 Hafez, M.M. 47, 170, 218  
 Haftel, M. 82, 87  
 Hagedorn, G.A. 116  
 Hagedorn, R. 221  
 Hahn, D. 156  
 Hahn, H. 106  
 Hahn, R.C. 48  
 Hahne, F.J.H. 186  
 Haissinski, J. 134  
 Hajdu, J. 133, 152, 177  
 Hajj-Boutros, J. 212  
 Haken, H. 84, 93, 155, 179  
 Hakim, R. 84, 212  
 Halas, N.J. 182  
 Halbert, M.L. 117  
 Haldenwang, P. 210  
 Halfmann, K.D. 215  
 Halkin, H. 21  
 Hall, D. 48  
 Hall, D.S. 193  
 Hall, L.J. 208  
 Hall, M.G. 59  
 Hall, R.P. 217  
 Hallgren, D.S. 48  
 Halonen, V. 198  
 Halpern, L. 176, 201  
 Hamaguchi, C. 177  
 Hamelin, Ch. 158  
 Hamermesh, M. 201  
 Hamilton, J.H. 168  
 Hamilton, M.W. 182  
 Hammer, F. 212  
 Hamon, B.V. 64  
 Hamza, E.A. 218  
 Han, C.S. 135  
 Han, D. 201  
 Handy, N.C. 93  
 Hänel, D. 218  
 Hanna, S. 61  
 Hanner, M.S. 48  
 Hänsch, T.W. 43  
 Hansen, C.J. 125  
 Hansen, J.P. 172  
 Hansen, L. K. 217  
 Hansen, O. 33  
 Hansen, O.P. 177  
 Hanusse, P. 132  
 Hao, B. 198  
 Haouat, G. 158  
 Harakeh, M.N. 158  
 Harar, S. 117, 158  
 Harari, H. 160  
 Harding, J.H. 166  
 Harker, A.H. 166  
 Harnad, J. 116, 129, 135, 201  
 Harnad, J.P. 129  
 Harney, H.L. 30, 33  
 Haroche, S. 43  
 Harper, D.A. 42  
 Harper, R.E. 177  
 Harriman, J.E. 187  
 Harris, B.L. 114  
 Harris, M. 180  
 Harris, S.E. 42, 43  
 Harrison, B.K. 205  
 Harrison, R.L. 125  
 Hart, M. 112  
 Hartel, K. 117  
 Harten, A. 170  
 Harter, W.G. 49  
 Hartfiel, J. 158  
 Hartkämper, A. 29  
 Hartmann, K.M. 156, 168  
 Hartmann, L.W. 193  
 Hartstein, A. 177  
 Hartung, J.B. 48  
 Harvey, J.D. 182  
 Harvey, M. 197  
 Hasegawa, H. 132  
 Hasegawa, T. 114  
 Hashimoto, Y. 171  
 Hasiewicz, Z. 201  
 Hatch, D.M. 201  
 Hatton, V. 215  
 Hauge, E.H. 31  
 Haus, J.W. 84  
 Hauser, I. 135, 205  
 Hautermann, W. 170  
 Hawkes, P.W. 112  
 Hawking, S.W. 160  
 Haxel, O. 178  
 Hayakawa, S. 48  
 Hayes, A.C. 156  
 Hayes, D.P. 193  
 Haynes, R.F. 124  
 Hayter, J.B. 128  
 Hayward, E. 61  
 He, R.W. 215  
 He, Y. 177  
 Heacox, W.D. 125

- Heaps, N.W. 58  
 Hebach, H. 61  
 Hecht, K.T. 135  
 Heckwolf, H. 178  
 Heenen, P.-H. 156, 171  
 Hehl, F.W. 176  
 Heidemann, A. 128  
 Heidmann, A. 212  
 Heift, K. 152, 177  
 Heinrich, H. 133, 152  
 Heitjans, P. 172  
 Helbig, Y.A. 64  
 Helbman, R.H.G. 93  
 Heller, C. 193  
 Heller, M. 109  
 Helmer, K. 178  
 Helmolt, U.v. 178  
 Hemenway, C.L. 48  
 Hemmen, J.L. van 93, 192  
 Henke, H. 218  
 Hennenberg, M. 105  
 Hennerici, W. 158, 178  
 Hennig, J.D. 139  
 Henning, W. 219  
 Hennion, B. 217  
 Hennrich, H.J. 178  
 Hensel, F. 172  
 Hensley, D.C. 117  
 Hepp, K. 2, 25  
 Hepp, V. 143  
 Herbert, T. 141  
 Herbst, I.W. 130  
 Herbst, W. 193  
 Herbut, F. 113, 201  
 Heremans, J. 152  
 Herlach, F. 152, 177  
 Herledan, R. 141  
 Herman, R. 177  
 Hermann, A. 100  
 Hermann, R. 130  
 Hermann, R.H. 6, 77, 80  
 Hernan, M.A. 136  
 Hernández, E. 201  
 Hernández, E.S. 142  
 Hernández-Machado, A. 199  
 Herrenden Harker, W.G. 217  
 Herrera, J.E. 189  
 Herrmann, G. 219  
 Herrmann, K.H. 152  
 Hertz, J.A. 149  
 Herzog, T. 177  
 Hess, H. 139  
 Hess, W. 84, 172  
 Hessberger, F. 219  
 Hessberger, S.P. 219  
 Hey, A.J.G. 77  
 Hey, J.D. 155  
 Heydenreich, J. 175  
 Heydt, J.v.d. 84  
 Heydt, N.v.d. 84  
 Heymans, P.P. 215  
 Heyng, H.W. 178  
 Hibberd, S. 64  
 Hida, T. 153  
 Hietarinta, J. 151  
 Higgins, J.S. 128  
 Higgs, A.W. 217  
 Hilf, E.R. 197  
 Hilger, E. 134  
 Hill, H.A. 125  
 Hill, R.N. 116, 162  
 Hill, W. 152  
 Hiller, B. 158  
 Hilmann, W. 177  
 Hilscher, D. 117, 178  
 Himmele, G. 178  
 Hintermann, A. 60  
 Hippler, R. 213  
 Hirakawa, H. 124  
 Hirose, Y. 177  
 Hirsch, C. 141  
 Hirsch, R.S. 141, 170, 218  
 Hirt, C.W. 141  
 Hirtz, J.P. 177  
 Hittinger, M. 170  
 Hiyamizu, S. 177  
 Hlavatý, L. 189  
 Ho, H. 117  
 Hoai, T.X. 152  
 Hodge, P.W. 48  
 Hodgson, P.E. 55, 168  
 Hodson, S.W. 125  
 Høegh-Krohn, R. 80, 93, 106, 211  
 Hoek, J. van der 216  
 Hoenselaers, C. 205  
 Hoerner, S. v. 42  
 Hoffer, L.M. 182  
 Hoffman, C.A. 152  
 Hoffmann, D.H.H. 158  
 Hoffmann, H.-J. 48  
 Hoffmann-Ostenhof, M. 116  
 Hoffmann-Ostenhof, T. 116  
 Hofmann, A. 158  
 Hofmann, D. 213  
 Hofmann, H. 117  
 Hofmann, I. 215  
 Hofmann, W. 48  
 Högaasen, H. 137  
 Hoggan, S. 212  
 Hohenberg, P.C. 210  
 Höhler, G. 56  
 Holcblat, A. 218  
 Holinde, K. 137, 142, 197  
 Hollasky, N. 213  
 Holst, T. 218  
 Holstein, T. 217  
 Holt, M. 8, 90, 91, 170, 218  
 Holt, S.S. 124  
 Holtzman, J.A. 193  
 Holzhey, C. 172  
 Homeyer, H. 117  
 Honerkamp, J. 126  
 Hooft, G. t'. 37  
 Hoover, A.D. 117  
 Hoover, W.G. 132  
 Hopf, F.A. 155  
 Hoppe, W. 156  
 Hora, H. 102  
 Horák, J. 152  
 Hörbst, E. 196  
 Hori, H. 177  
 Horibe, M. 176  
 Horiuti, K. 141, 170  
 Horn, H.M. van 125  
 Horne, J.H. 193  
 Horninger, K. 196  
 Hornung, H. 64  
 Horovitz, B. 217  
 Horowitz, G.T. 202  
 Horrabin, C.W. 215  
 Horstemke, W. 72  
 Hortaçsu, M. 180  
 Horwitz, G. 176  
 Horwitz, L.P. 135, 139, 201  
 Hosoya, A. 176  
 Hoßfeld, F. 196  
 Hotch, H. 217  
 Hotchkiss, R.S. 141  
 Houard, J.-Cl. 106  
 Hough, J. 212  
 Houtman, H. 215  
 Howard, R.A. 48  
 Howels, W.S. 128  
 Howland, J.S. 130  
 Hršel, K. 201  
 Hrusa, W.J. 195  
 Hu Hesheng 212  
 Huang, D. 141  
 Huang, L.P. 141  
 Huber, C.A. 152  
 Huber, K. 158  
 Huber, M.G. 158  
 Huberman, B.A. 179  
 Hubert, A. 26  
 Hübner, K. 175  
 Hübsch, T. 201  
 Huckaby, D.A. 206  
 Hudson, H.S. 193  
 Hudson, P.A. 177  
 Hudson.R.L. 173  
 Huenemoerder, D. 193  
 Huerta, R. 135  
 Huggins, P.J. 193  
 Hughes, J.W.B. 180



- Hugi, M. 156  
 Hugston, L.P. 14, 97  
 Huizenga, J.R. 117  
 Hukumoto, S. 215  
 Humi, M. 14  
 Humpert, B. 45  
 Hunri, J.-P. 201  
 Hunziker, W. 116  
 Hurt, N.E. 130  
 Hussain, A.K.M.F. 136  
 Hussaini, M.Y. 141, 170, 218  
 Hussar, P.E. 135  
 Hussin, V. 180  
 Hutiray, Gy. 217  
 Hutter, K. 88  
 Iachello, F. 119, 161  
 Iacob, A. 120  
 Iagolnitzer, D. 116, 126  
 Iben, I. 193  
 Ichimura, A. 93  
 Ichinose, S. 176  
 Ide, H. 218  
 Igarashi, Z. 215  
 Iizuka, H. 196  
 Ikegami, K. 215  
 Iliopoulos, J. 100  
 Illner, R. 195  
 Imanishi, B. 156  
 Imbrie, J.Z. 153  
 Immirzi, G. 106  
 Inagaki, K. 177  
 Indira, R. 184  
 Infante, E.F. 21  
 Ingham, D.B. 141  
 Inglesfield, J.E. 166  
 Ingold, G. 178  
 Inönü, E. 180  
 Inoue, K. 176  
 Inoue, O. 141  
 Ioannides, P. 152  
 Iochum, B. 106  
 Irac, M. 106  
 Irmscher, H. 175  
 Irvine, J.M. 171  
 Isacker, P. van 180  
 Iselin, F.Ch. 215  
 Isenberg, J.A. 129, 135  
 Isenbügel, R. 156  
 Ishida, A. 152  
 Ishida, S. 177  
 Ishii, K. 215  
 Israel, F.P. 42  
 Israeli, M. 141, 170, 218  
 Issa, R. 141  
 Issi, J.-P. 152  
 Itoga, T. 177  
 Itzykson, C. 106  
 Ivanov, I.B. 105  
 Ivanov, M.I. 116  
 Ivanov, M.S. 141  
 Ivanov-Omskii, V.I. 152  
 Ivchenko, E.L. 133  
 Iwasaki, S. 161  
 Iwasaki, Y. 176  
 Iyengar, K.V.K. 193  
 Izraelev, F.M. 93  
 Izutsu, N. 218  
 Jackiw, R. 129, 176  
 Jackson, D.D. 85  
 Jacob, M. 37  
 Jacobs, L. 135, 181  
 Jacobs, P. 219  
 Jacobs, P.W.M. 166  
 Jacucci, G. 166  
 Jaczynski, M. 152  
 Jaen, X. 212  
 Jaeschke, E. 178  
 Jaffe, A. 25, 80, 116, 153  
 Jagannathan, R. 184  
 Jager, C.W. de 137  
 Jahnke, A. 215  
 Jahnke, U. 117, 178  
 Jain, R.K. 105  
 Jakate, S.M. 125  
 Jakiw, R. 181  
 Jakobsen, H.P. 180  
 Jaksha, D.B. 193  
 Jakubassa-Amundsen, D.H. 213  
 Jakubiec, A. 106  
 Jameson, A. 91, 218  
 Jameson, G.M. 170  
 Jaminon, M. 142  
 Jammer, M. 100  
 Janich, P. 100  
 Janner, A. 50, 180, 201  
 Jannik, G. 172  
 Jánossy, A. 65, 217  
 Janovec, V. 217  
 Jans, E. 137  
 Janssen, T. 50, 180, 201  
 Janßen, H. 158  
 Janszen, H. 158  
 Jantsch, W. 152  
 Jaques, M. 201  
 Jarcyk, L. 156  
 Jarić, M.V. 135, 172, 180, 201  
 Jauncey, D.L. 124  
 Jeffryes, B. 202  
 Jegerlehner, F. 37  
 Jenkin, G. 128  
 Jenkins, H.D.B. 166  
 Jenni, P. 134  
 Jennings, R.E. 42  
 Jensen, E. 193  
 Jensen, H.-J.Aa. 198  
 Jerzak, A.J. 198  
 Jerzykiewicz, M. 125  
 Jeugt, J. van der 180, 201  
 Jeukenne, J.-P. 55  
 Jia-tian, T. 152  
 Jiao, L.Q. 141  
 Jimbo, M. 116, 126, 153  
 Jimenez, J. 136  
 Jing, L. 152  
 Jing, T.W. 217  
 Jing-fu, H. 152  
 Jobert, G. 85  
 Joets, A. 210  
 Joffrin, J. 112  
 Joglekar, S.D. 208  
 John, F. 195  
 John, G. 135  
 Johnson, C. 215  
 Johnson, D.L. 154  
 Johnson, G.M. 141, 170, 218  
 Johnson, H.R. 193  
 Johnson, K.A. 160  
 Johnson, P.W. 85  
 Johnson, W.W. 125  
 Johnston, A.M. 152  
 Johnstone, W.T. 215  
 Joho, W. 215  
 Joly, F. 172  
 Jona-Lasinio, G. 80, 153, 201  
 Jones, C.E. 152  
 Jones, H. 177  
 Jones, R.B. 54  
 Jong, T. de 42  
 Jonsson, J.G. 64  
 Joos, H. 56  
 Joos, P. 72  
 Jordan, A.K. 130  
 Jordan, C. 193  
 Jost, R. 100  
 Jou Mirabent, D. 179  
 Jou, D. 132, 164, 199  
 Joubert, G. 112  
 Jouffrey, B. 112  
 Jousset, J. 134  
 Jowett, J.M. 215  
 Judd, B.R. 201  
 Judge, P.G. 193  
 Julia, B. 116, 180  
 Julien, J. 158  
 Junior, P. 215  
 Kabashima, S. 132  
 Kachholz, S. 117  
 Kadanoff, L.D. 54  
 Kadić, A. 174  
 Kadokura, E. 215  
 Kaganov, M.I. 115  
 Kagoshima, S. 217  
 Kahl, G. 135

- Kahn, F.D. 42  
 Kahn, P.B. 132  
 Kaiser, W. 182  
 Kajantie, K. 221  
 Kajino, T. 219  
 Kajura, K. 64  
 Kakuto, A. 176  
 Kalem, C.B. 217  
 Kalia, R.K. 198  
 Kalinowski, J. N. de 33  
 Kalkofen, W. 193  
 Kallio, A. 142, 198  
 Kalman, G. 142  
 Kálnay, A.J. 201  
 Kalnova, I.Ju. 217  
 Kalos, M.H. 142  
 Kaluziński, L.J. 124  
 Kamenetsky, V.F. 218  
 Kamińska, M. 175  
 Kammerer, J.B. 212  
 Kampen, N.G. van 84  
 Kane, E.O. 133  
 Kanitscheider, B. 100  
 Kaplan, R. 133, 152  
 Karasu, A. 180  
 Karlin, V.A. 218  
 Karlsson, B. 85  
 Karney, C.F.F. 93  
 Karowski, M. 126  
 Karp, J. 156  
 Karpfen, A. 113  
 Karwowski, W. 106, 216  
 Kase, M. 215  
 Kashiwara, M. 126  
 Kasperkovitz, P. 135, 180  
 Kasteleyn, P.W. 180  
 Kastler, O. 80  
 Kasuya, M. 176  
 Katayama, S. 152  
 Katoh, T. 215  
 Katok, A. 179  
 Katori, K. 156  
 Katsura, Sh. 115  
 Kaufmann, K. 84  
 Kaup, D.J. 130  
 Kawahara, K. 170  
 Kawaguchi, Y. 177  
 Kawai, H. 176  
 Kawai, T. 126  
 Kawaji, S. 177  
 Kawakubo, T. 132  
 Kawamura, H. 133  
 Kawamura, T. 218  
 Kawasaki, K. 132  
 Kay, B.S. 116  
 Kearney, M.W. 130  
 Keeley, D. 125  
 Kegeles, L.S. 130  
 Kehr, K.W. 84  
 Keil, S.L. 125  
 Keith, J.S. 170  
 Keller, C. 142  
 Keller, G. 179  
 Keller, H.B. 35, 58  
 Keller, J. 142, 158, 187, 219  
 Keller, J.B. 70, 154  
 Keller, J.-G. 219  
 Keller, K. 106  
 Kemmler, J. 213  
 Kendrick, J. 166  
 Kennett, B.L.N. 85  
 Kentzer, C.P. 141  
 Kepa, H. 152  
 Kerimov, G.A. 180  
 Kerler, W. 106  
 Kerr, G.A. 212  
 Kerr, J.L. 170  
 Kertesz, M. 113  
 Kessler, P. 134, 134  
 Kesten, H. 80  
 Keune, W. 192  
 Kewisch, J. 215  
 Khakpour, A. 106  
 Khalatnikov, I.M. 115  
 Khosla, P.K. 141, 170, 218  
 Khurana, A. 149  
 Kibler, M. 135  
 Kido, G. 177  
 Kielanowski, P. 180, 222  
 Kienle, P. 117  
 Kiese, G. 172  
 Kijowski, J. 107, 212  
 Kikkawa, K. 176  
 Kikuthani, E. 215  
 Kilian, K. 178  
 Killeen, J. 91  
 Killen, P. 64  
 Kim, B.T. 219  
 Kim, H.J. 219  
 Kim, R.S. 152  
 Kim, Y.S. 135, 201  
 Kimble, H.J. 182  
 Kimura, Y. 215  
 King, D.S. 125  
 King, R.C. 180  
 Kinnersley, W. 14  
 Kinnersley, W.M. 135  
 Kinoshita, H. 152  
 Kinoshita, J. 177  
 Kinzel, W. 149, 192, 206  
 Kippenhahn, R. 42  
 Kirchgässner, K. 195  
 Kirzenow, G. 31  
 Kirkpatrick, S. 149  
 Kirkpatrick, T. 132  
 Kirsch, W. 153, 173  
 Kirscht, F.-G. 175  
 Kishiro, J. 215  
 Kissel, J. 48  
 Kitahara, K. 84  
 Kjeldseth Moe, O. 193  
 Kjeldseth, O. 193  
 Klarsfeld, S. 138  
 Klasky, R.S. 193  
 Klauder, J.R. 173  
 Klaus, E. 156  
 Klausz, R. 112  
 Kleef, R.P.A.R. van 177  
 Klein, A. 142, 180  
 Klein, M.P. 172  
 Klein, R. 172  
 Kleinert, A. 100  
 Kleinert, H. 171  
 Kleinfeller, J. 158  
 Kleinhenz, R.L. 175  
 Kleinman, R.E. 130  
 Kleiser, L. 170  
 Klemm, R.A. 217  
 Klempt, E. 143  
 Klepper, O. 178  
 Kligenbeck, K. 137, 158  
 Klingshirn, C. 177  
 Klink, W.H. 135  
 Klitzing, K. von 177  
 Klose, H. 175  
 Klotz, W.-D. 215  
 Kluge, H. 117  
 Klüver, M. 158  
 Knapp, J. 125  
 Kneile, K.R. 218  
 Kneissl, U. 158  
 Knight, D.D. 136  
 Knight, P.L. 182  
 Knödler, R. 172  
 Knöpfler, K.T. 158  
 Knowles, P. 152, 177  
 Knüpfer, W. 158  
 Ko, C.M. 144, 145  
 Kobos, A.M. 168  
 Koca, M. 180, 201  
 Koch, F. 133, 152, 177  
 Koch, J.H. 137  
 Koch, S.W. 207  
 Kodaira, K. 114  
 Koeck, C. 218  
 Köhler, H.S. 171  
 Kohler, W. 70, 154  
 Kohn, R.V. 154  
 Koike, M. 175  
 Koike, T. 177  
 Kolanoski, H. 191  
 Kolata, J.J. 156  
 Kolb, B. 178  
 Koller, J. 113

- Kolmogorov, A.N. 93  
 Komada, I. 215  
 Komatsu, H. 176  
 Konczewicz, L. 177  
 Kondala Rao, M. 201  
 Kondo, Y. 156  
 Kondor, I. 216  
 Konnerth, D. 156  
 Konwent, H. 115  
 Koomen, M.J. 48  
 Koonin, S.E. 142, 171, 219  
 Koop, E.A. 178  
 Koos, M. 122  
 Kopský, V. 201  
 Korczak, K.Z. 218  
 Kordulla, W. 170, 218  
 Körner, H.J. 33, 117  
 Körner, J.G. 56  
 Korotky, S.K. 156  
 Korsch, H.J. 211  
 Korving, C. 141, 218  
 Kosa-Somogyi, I. 122  
 Koschar, P. 213  
 Kose, V. 177  
 Kossut, J. 133, 152  
 Kost, C.J. 215  
 Kostant, B. 6, 120  
 Kostik, R.I. 114  
 Koszykowski, M.L. 93  
 Kotecky, R. 173  
 Kottis, Ph. 113  
 Kotzev, J.N. 180, 201  
 Koutchmy, S. 48  
 Kovenya, V.M. 58, 170  
 Kövér, Á. 213  
 Kozameh, C.N. 202  
 Kozel, K. 170, 218  
 Kramer, B. 177  
 Kramer, D. 205  
 Kramer, G. 56  
 Kramer, L. 210  
 Kramer, P. 79, 135, 140, 201  
 Krappe, H.J. 33, 117  
 Kratz, J.V. 219  
 Kraus, K. 190  
 Krause, E. 41, 148, 170  
 Krause, G. 64  
 Krause, J. 201  
 Kree, P. 106, 173  
 Kreiss, H.O. 35, 58, 148  
 Kremer, G.M. 199  
 Kremer, R.E. 152  
 Kresák, L. 48  
 Kress, W. 152  
 Krewald, S. 137, 158  
 Krey, U. 149, 192  
 Kriechbaum, M. 152, 177  
 Krieger, S.J. 171  
 Krishna Prasad, K. 136  
 Krishna Swamy, K.S. 114  
 Krispin, P. 175  
 Kriza, G. 217  
 Krompiewski, S. 206  
 Krost, A. 152  
 Krotschek, E. 142  
 Krotschek, E. 138, 198  
 Krügel, E. 42  
 Krüger, E. 128  
 Kruglov, A.N. 217  
 Kübler, O. 112  
 Kubo, R. 31  
 Kubota, T. 215  
 Kuchar, F. 152, 177  
 Kudo, K. 215  
 Kuerten, K.E. 142  
 Kuhl, A. 141  
 Kuhl, A.L. 170  
 Kühn, W. 117  
 Kühnel, A. 206  
 Kuiper, B. 215  
 Kulinski, S. 215  
 Kulish, P.P. 80, 116, 151  
 Kulišić, P. 22  
 Kulkarni, A.D. 202  
 Kulpa, S.M. 152  
 Kumar, D. 184  
 Kumar, N. 184  
 Kumazaki, K. 152  
 Kümmel, H. 142, 198  
 Kummer, M. 93  
 Kunert, H.W. 180, 201  
 Kunstatter, G. 153  
 Kunz, A.B. 113  
 Kunz, H. 116, 149, 153  
 Kunz, J. 158  
 Künzle, H.P. 14  
 Kuo, T.T.S. 144, 145  
 Kupiainen, A. 116, 153  
 Kurath, D. 119, 119  
 Kuratsuji, H. 171  
 Kurobori, T. 182  
 Kuroda, N. 177  
 Kurokawa, S. 215  
 Kürten, K.E. 138, 198  
 Kurti, N. 177  
 Kurucz, R. 193  
 Kutcherenko, I.V. 152  
 Kutl, J. 160  
 Kutler, P. 218  
 Kutler, R. 41  
 Kutzelnigg, W. 198  
 Kuwabara, H. 152  
 Kuwahara, K. 141, 218  
 Kwak, D. 218  
 Kwaśniewski, A.K. 201  
 Kwong, N.-H. 142, 198  
 Laborde, O. 177  
 Labrosse, G. 210  
 Lacarrere, P. 58  
 Lachaud, G. 153  
 Lachkar, J. 158  
 Lachowicz, M. 195  
 Lacomba, E. 135, 189  
 Lacroix, J.C. 72  
 Ladik, J. 113  
 Laget, J.M. 137  
 Lagniel, J.M. 215  
 Lagowski, J. 175  
 Lahmer, W. 156  
 Lakeenkov, V.M. 152  
 Lakeshmi, T.V. 217  
 Lam, P.M. 142  
 Lambert, A. 106  
 Lambert, D.L. 193  
 Lamine, J. 58  
 Laminie, J. 141, 170, 218  
 Lämmert, E. 100, 153  
 Lamsweerde-Gallez, D. van  
 105  
 Lamy, Ph.L. 48  
 Lana, F. 218  
 Lancaster, J. 215  
 Landau, L. 80  
 Lande, A. 198  
 Landini, M. 193  
 Landowne, S. 219  
 Landuyt, J. van 175  
 Landwehr, G. 133, 177  
 Lanford III, O.E. 116  
 Lanford, O.E. 20, 25  
 Lang, A.R. 112  
 Lang, J. 156  
 Lang, W. 135, 158  
 Langanke, K. 156  
 Langer, J.M. 122  
 Langer, J.S. 132  
 Langouche, F. 84, 106  
 Lantto, L. 198  
 Lantto, L.J. 142  
 Lantzmänn, S. 219  
 Lapidra, R. 199  
 Lapikas, L. 137  
 Lapostolle, P.M. 215  
 Laroche, C. 210  
 Lasbleiz, P. 218  
 Lasbley, A. 152  
 Lascaux, P.M. 58  
 László, J. 175  
 Latyshev, Yu.I. 217  
 Latz, R. 213  
 Laurence, D. 218  
 Laurent, Y. 126  
 Lawande, S.V. 184  
 Lax, M. 154

- Lax, P.M. 91  
 Lazareff, M. 218  
 Lazzarini, A. 156, 219  
 Le, K.D. 141  
 Le, T.H. 170  
 Leach, P.G.L. 135  
 Lebech, B. 152  
 Lebedev, A.S. 170  
 Lebedev, V.V. 115  
 Lebon, G. 164, 164, 199  
 Lebowitz, J.L. 7, 20, 31, 54, 80, 116, 153  
 Lebrun, D. 158  
 Lecointe, A. 170  
 Lecomte, P. 129  
 Ledebo, L.A. 175  
 Lednický, R. 181  
 Ledoux, R.J. 156, 219  
 Lee, H.C. 144, 145  
 Lee, I.Y. 219  
 Lee, J.K.P. 144, 145  
 Lee, M.A. 198  
 Lee, M.J. 215  
 Lee, P.A. 217  
 Lee, S.H. 170  
 Leeman, Ch. 217  
 Leemon, H.I. 135  
 Leener, M. de 31  
 Leer, B. van 170, 218  
 Leeuwen, J.M.J. van 206  
 Lefort, M. 33, 117, 158  
 Legget, A.J. 115  
 Legrand, D. 158  
 Legros, J.-C. 72  
 Lehr, H. 117  
 Leibacher, J. 114  
 Leicher, S. 170  
 Leinert, C. 48  
 Leite, J.R. 175  
 Lejeune, A. 55, 198  
 Lekkerkerker, H.N.W. 72  
 Lemaire, J.L. 215  
 Lemke, D. 42, 48  
 Lena, P. 48  
 Lenard, A. 20  
 Lendvay, E. 175  
 Lengyel, S. 199  
 Lenz, U. 219  
 Leo, M. 120  
 Leo, R. de 158  
 Leo, R.A. 120  
 Leonard, A. 136, 141, 170  
 Leonardi, E. 218  
 Leonardi, R. 61  
 Leontić, B. 95, 96  
 Léorat, J. 84, 218  
 Lepine, J. 42  
 Lequeux, J. 42  
 Lerat, A. 170  
 Leray, J. 106, 195  
 Lerche, I. 124  
 Lerner, D. 14  
 Leroy, G. 113  
 Lesaint, P. 91  
 Leschke, H. 106  
 Lesko, K. 156  
 Lestrade, J.F. 212  
 Leuchs, G. 182  
 Leutwyler, H. 118, 153  
 Leuven, P. van 201  
 Levasseur, A.C. 48  
 Leventhal, L. 58  
 Levi, D. 98  
 Levy, M. 187  
 Levy, Y. 112  
 Levy-Leblond, J.M. 112  
 Lewin, H.C. 215  
 Lhuillier, C. 198  
 Li, C.P. 218  
 Li, C.T. 142  
 Li, S.-Y. 170  
 Li, T. 142  
 Li, Y.F. 141  
 Libchaber, A. 179, 210  
 Lichnerowicz, A. 106, 212  
 Lichtenberg, A.J. 93  
 Lidiard, A.B. 166  
 Lieb, E. 116  
 Lieb, E.H. 20, 25, 80, 142  
 Liepmann, H.W. 148  
 Liljeby, L.I. 213  
 Lillie, Ch.F. 48  
 Limberg, T. 215  
 Lin, A. 170, 218  
 Lin, C. 154  
 Lin, J. 132  
 Lin, S.-Y. 217  
 Liñan, A. 136  
 Lindblad, B.A. 48  
 Linde, H. 105  
 Lindelof, P.E. 177  
 Lindenberg, K. 216  
 Lindfors, J. 181  
 Lindgren, K. 62  
 Lindroos, M. 141  
 Lindsay, R. 156  
 Link, F. 48  
 Link, H. 48  
 Linsky, J. 193  
 Linsky, J.L. 114, 193  
 Lions, J.J. 218  
 Lions, J.L. 58, 59, 91  
 Lipa, J.A. 124  
 Lischka, K. 152  
 Lisovskaya, T.Ju. 115  
 Lisseivkin, V.D. 91  
 Lites, B.W. 114  
 Litovchenko, V.G. 175  
 Littler, C.L. 152  
 Littlewood, P.B. 152, 217  
 Litvin, D.B. 135  
 Litwin-Staszewska, E. 152, 177  
 Liu, C.H. 170  
 Liu, K.F. 144, 145  
 Liu, L. 133  
 Liu, Q.K.K. 144, 145  
 Liu, S.N. 182  
 Liu, X.Z. 141  
 Liu, Y.Z. 141  
 Livingston, W. 125  
 Llano, M. de 142, 189, 198  
 Llebaria, A. 48  
 Liebot, J.E. 199  
 Llewellyn Smith, C.H. 134  
 Llosa, J. 132, 162, 212  
 Löbner, K.E.G. 178, 219  
 Lobo, J.A. 162  
 Lock, D.-K. 219  
 Lodi-Rizzini, E. 55  
 Loeve, W. 59  
 Löf, A.M. 101  
 Logan, J.D. 125  
 Löhner, H. 117, 178  
 Löhner, R. 218  
 Lombard, C.K. 170, 218  
 Longhi, G. 162  
 Longo, J. 170  
 Longo, R. 153  
 Longuet-Higgins, M.S. 64, 141  
 Lopez Castillo, J. 217  
 López deHaró, M. 132  
 Lopez-Otero, A. 152  
 Loram, J.W. 152  
 Lorenc, J. 201  
 Lorente Parámo, M. 201  
 Lorenz, B. 206  
 Lorenz-Petzold, D. 205  
 Lortet, M.C. 42  
 Losco, L. 135  
 Lošťák, P. 152  
 Loulergue, J.C. 210  
 Loyant, J.M. 215  
 Loyer, F. 215  
 Lozano, M. 168  
 Lubensky, T.C. 149  
 Lubow, S.H. 125  
 Lucas, M.W. 213  
 Lucas, R. 42, 219  
 Lücke, M. 115  
 Ludemann, C.A. 215  
 Ludeña, E.V. 198  
 Ludewigt, B. 117  
 Ludlam, T. 221  
 Ludwig, G. 4, 100  
 Ludwig, R. 153  
 Lugiato, L.A. 155

- Lugo, G.G. 135  
 Lugol, J.C. 158  
 Lugt, W. van der 172  
 Lukierski, J. 180, 201  
 Lunardi, S. 219  
 Luo, S.-J. 170  
 Lurié, D. 132  
 Luszik, M. 158  
 Luther-Davis, B. 182  
 Lutz, H.O. 213  
 Lützenkirchen, K. 219  
 Luzzati, V. 112  
 Lynch, H.L. 118  
 Lynen, U. 117, 158  
 Lyubimkov, L.S. 114  
 Maan, J.C. 177  
 Maas, R. 137  
 Maass, K. 175  
 Maass, W. 149  
 MacCallum, M. 109  
 MacCallum, M.H.A. 205  
 MacCormack, R.W. 141, 148, 170, 218  
 MacGillivray, W.R. 182  
 MacGregor, M.H. 81  
 MacKenzie, H.A. 152  
 MacKinnon, A. 177  
 Mach, R. 175  
 Machleidt, R. 197  
 Maciel, A.C. 177  
 Mack, G. 37, 63, 153, 181  
 Mackintosh, R.S. 168  
 Mackrodt, W.C. 166  
 Madurga, G. 168  
 Maeda, M. 182  
 Maege, J. 175  
 Maestrello, L. 170  
 Magnen, J. 116  
 Magnollay, P. 180  
 Magnusson, C.E. 193  
 Magri, F. 120  
 Mahanthappa, K.T. 135, 180  
 Maharana, J. 208  
 Mahaux, C. 22, 55, 138, 142, 198, 211  
 Maheshwari, A. 106  
 Maier, H.J. 158  
 Maier, R. 215  
 Mainardi, F. 47  
 Mais, H. 215  
 Maischberger, K. 212  
 Maison, D. 205  
 Majumdar, C.K. 184  
 Makeenko, Yu.M. 181  
 Maki, K. 217  
 Makram-Ebeid, S. 122  
 Makunda, N. 165  
 Malaguti, F. 55  
 Malaspinas, A. 84  
 Maldarelli, C. 105  
 Malek-Mansour, M. 72  
 Maletta, H. 192  
 Malfliet, M. 33  
 Malfliet, R.A. 158  
 Malgrange, B. 126  
 Malgrange, C. 112  
 Maltby, P. 193  
 Maltseve, V.A. 152  
 Man, C.N. 212  
 Man, K.F. 213  
 Manabe, M. 177  
 Manaffey, C. 125  
 Manchester, R.N. 124  
 Mandel, P. 182  
 Mandelbrot, B. 149  
 Maneval, J.P. 112  
 Mangan, J.B. 212  
 Man'ko, V.I. 201  
 Manneville, P. 72, 210  
 Manns, V. 192  
 Manolessou-Grammaticou, M. 106  
 Manoyan, J.M. 156  
 Mansfield, P. 112  
 Mansfield, R. 177  
 Mantel, B. 218  
 Maquet, A. 211  
 Marathe, K.B. 180  
 March, N.H. 166  
 Marchioro, C. 203  
 Marculescu, S. 201  
 Marcus, J. 217  
 Marcus, P. 218  
 Marcus, P.S. 170  
 Marcus, R.A. 93  
 Marechal, A. 112  
 Marel, C. van der 172  
 Margalef, R. 164  
 Marić, Z. 180  
 Mariolopoulos, G. 158  
 Maritan, A. 216  
 Marmo, G. 188  
 Marquardt, N. 156  
 Marro, J. 31, 84  
 Marrocco, A. 58  
 Marsden, J.E. 14, 195  
 Marti, Y. 215  
 Martin, A. 3, 197  
 Martin, A.H.M. 42  
 Martin, B. 83, 215  
 Martin, Ch. 106  
 Martin, J. 212  
 Martin, P. 114, 158  
 Martin, P.A. 103, 116, 153  
 Martin-Löf, A. 20  
 Martinelli, F. 153, 173  
 Martinet, B. 210  
 Martinez, S. 179  
 Martinez-Val, R. 136  
 Martino, F. 113  
 Martinolli, P. 217  
 Martorell, J. 138, 209  
 Marty, C. 156  
 Martzolf, M. 198  
 Maruhn, J.A. 117, 171  
 Marumori, T. 171  
 Massaguer, J.M. 210  
 Masserini, G.L. 198  
 Mateos, J. 135  
 Mathieu, J. 136  
 Mathiot, A. 112  
 Matone, G. 62, 137  
 Matsonashvili, B.N. 152  
 Matsou, Y. 182  
 Matsuda, T. 176  
 Matsumoto, J. 48  
 Mattéi, P. 215  
 Matthias, E. 30  
 Mattioli, M. 137  
 Matyáš, M. 152  
 Maucherat, M. 48  
 Mauri, G. 196  
 Mayer, D.H. 123  
 Mayer, M.E. 67, 116  
 Mayer-Kress, G. 179  
 Mayer-Kuckuk, T. 22, 158  
 Mayne, F. 31  
 Mazo, R.M. 84  
 Mazur, C. 158  
 Mazur, P. 31  
 McClure, S.W. 177  
 McCulloch, P.M. 124  
 McDonald, H. 141, 170  
 McGowan, F.K. 219  
 McGrath, R.L. 156  
 McGreehan, W.F. 218  
 McGuinness, M.J. 120  
 McIlwain, A. 215  
 McIntosh, C.B.G. 124  
 McKee, J.S.C. 30, 215  
 McKee, W.D. 64  
 McKernan, S. 217  
 McLaughlin, D. 154  
 McLenaghan, R.G. 212  
 McLerran, L. 181, 221  
 McMichael, G.E. 215  
 McPhedran, R.C. 154  
 McVoy, K.W. 33  
 Meaburn, J. 42  
 Meadows, J. 158  
 Mebkhout, Z. 126  
 Meckbach, W. 213  
 Meczynski, W. 219  
 Medina-Noyola, M. 172  
 Meerschaut, A. 217

- Mehta, U.B. 218  
 Mei-fang, Y. 152  
 Meiron, D.I. 141  
 Meisels, R. 152  
 Meissner, G. 177  
 Melchert, F. 177  
 Melen, R.E. 215  
 Meljanac, S. 201  
 Mellema, J.E. 112  
 Melngailis, I. 133  
 Melnik, W.L. 170  
 Meloni, F. 152  
 Meltcalfe, R.W. 170  
 Melville, W.K. 64  
 Meneguzzi, M. 218  
 Mensing, P. 136  
 Mercader, I. 210  
 Mercier, B. 218  
 Merkjian, A. 119  
 Merlini, D. 60, 173  
 Mermin, N.D. 115  
 Messer, J. 147  
 Mestel, L. 124, 193  
 Metag, V. 156, 158, 178  
 Metcalfe, R.W. 141  
 Meurant, G. 218  
 Mewe, R. 193  
 Meyenn, K.v. 100  
 Meyer, H. 56  
 Meyer, H. de 180, 201  
 Meyer, J.R. 152  
 Mezei, F. 112, 128  
 Mezger, P.G. 42  
 Michaelsen, R. 215  
 Michard, F. 112  
 Micheau, J.C. 210  
 Michel, B. 134  
 Michel, F. 156  
 Michel, K.W. 48  
 Michel, L. 6, 153, 180  
 Michelletti, S. 158  
 Mielke, E.W. 139  
 Miglietta, F. 135  
 Migneco, E. 158  
 Mignerey, A.C. 117  
 Mihály, G. 217  
 Mihály, L. 217  
 Milazzo-Colli, L. 22  
 Milburn, G.J. 182  
 Milewski, B. 201  
 Miller Jr., W. 135, 189  
 Miller, G.A. 197  
 Miller, M. 215  
 Miller, M.D. 198  
 Miller, R. 28  
 Müller, W.H. 93  
 Million, A. 152  
 Millman, P. 48  
 Mills, D.A. 64  
 Miltat, J. 112  
 Milton, G.W. 154  
 Minkowski, P. 100  
 Minnaert, P. 201  
 Miodek, I. 85  
 Mira, Ch. 179  
 Miracle-Solé, S. 20, 54, 80  
 Mircea, A. 122  
 Mita, Y. 152  
 Mittelstaedt, P. 100  
 Mittag, W. 158  
 Miura, I. 156  
 Miura, N. 177  
 Miwa, T. 116, 126  
 Miyamura, O. 221  
 Miyashita, S. 149  
 Miyazawa, Y. 215  
 Miyoshi, T. 58  
 Mizrahi, M.M. 106  
 Mladjenović, M. 52  
 Möbius, K.-H. 219  
 Mocker, M. 152  
 Mogilevsky, E.I. 114  
 Mohapatra, R.N. 208  
 Möhl, D. 178  
 Möhring, K. 219  
 Moin, P. 170  
 Moiseyev, N. 211  
 Mol, C. de 85  
 Mol, W.J.A. 141  
 Molina, A. 212  
 Molinari, A. 137  
 Molinié, P. 217  
 Monceau, P. 217  
 Moncrief, V. 153, 202  
 Mondaini, R.P. 106  
 Mondragón, A. 135, 201  
 Monin, H. 218  
 Monkhorst, H.J. 198  
 Monod, P. 149  
 Monsignor Fossi, B.C. 193  
 Monsivais, G. 142  
 Montagne, J.L. 218  
 Montagnoli, G. 219  
 Montaldi, E. 216  
 Montarou, G. 134  
 Montes, C. 98  
 Montgomery, H.E. 181  
 Montonen, C. 151  
 Montret, J.C. 134  
 Montroll, E. 28  
 Mooers, C.N.K. 64  
 Moor, G. de 58  
 Moore, C.C. 6  
 Moore, E.F. 141, 218  
 Moraal, H. 214  
 Morales, F. 152  
 Morando, M. 219  
 Moratro, L. 173  
 Morawski, A. 175  
 Morel, B. 201  
 Morel, P. 85  
 Moretto, L.G. 158  
 Morf, R.H. 141  
 Morgan, C. 129  
 Mircea, A. 116  
 Morgan, K. 218  
 Morgenstern, H. 117  
 Morgenstern, I. 192  
 Mori, H. 132  
 Mori, K. 48  
 Mori, S. 177  
 Mori, Y. 215  
 Morimoto, T. 177  
 Moriyama, J. 177  
 Morkowski, J. 115  
 Morra, P. 216  
 Morrillo, J. 217  
 Morris, P.G. 112  
 Morrison, D.A. 48  
 Morrison, G.C. 117  
 Morro, A. 199  
 Morsch, H.-P. 158  
 Morton, K.W. 170, 218  
 Mory, C. 112  
 Mosel, U. 156, 168, 177  
 Moser, C. 113  
 Moser, J. 38  
 Moses, H.E. 130  
 Moshinsky, M. 135, 142, 161, 180, 189, 201  
 Moszkowski, S.A. 142  
 Motakabbir, K.A. 198  
 Mott, N.F. 172  
 Mourre, E. 153  
 Moya deGuerra, E. 171, 209  
 Moylan, P. 135  
 Moylan, P.J. 180  
 Mozrymas, J. 180  
 Mozurkewich, G. 217  
 Mroczkowski, J.A. 152  
 Muel, J.L. 1e 85  
 Mueller, T.J. 41  
 Mueller, W.F.J. 158  
 Mujica, A. 48  
 Mukherjee, A.K. 171  
 Mula, G. 152  
 Mulase, M. 116  
 Mulder, W.A. 218  
 Müller, B. 168  
 Müller, G.O. 175  
 Müller, H. 22  
 Müller, I. 199  
 Müller, K.A. 149  
 Müller, R. 156

- Müller, R.W. 215  
 Müller, U. 168  
 Müller, W. 160  
 Mullin, T. 210  
 Munakata, T. 172  
 Munier, A. 85, 98  
 Muñoz-Sudupe, A. 216  
 Munro, R.H. 48  
 Munsch, G. 177  
 Münzenberg, G. 219  
 Murani, A.P. 128  
 Murase, K. 152, 177  
 Murdin, P.G. 124  
 Muro, K. 177  
 Murphy, T.C. 135  
 Murray, B.T. 136  
 Murthy, K.P.N. 184  
 Muschik, W. 199  
 Müther, H. 138, 198  
 Mutka, H. 217  
 Mutterer, M. 158, 178  
 Mycielski, A. 152  
 Mycielski, J. 152, 177  
 Mydosh, J.A. 149, 192  
 Myers, P.C. 193  
 Myron, H.W. 177  
 Mysak, D.A. 64  
 Nad', F.Ya. 217  
 Nadworny, M.M. 170, 218  
 Nagai, K. 115  
 Nagashima, T. 179  
 Nagashima, Y. 156  
 Nagata, Y. 64  
 Nagel, K. 48  
 Naghizadeh, J. 172  
 Nahm, W. 180, 201  
 Najda, S.P. 177  
 Nakahashi, K. 170, 218  
 Nakamura, H. 218  
 Nakamura, S. 170, 218  
 Nakanishi, N. 176  
 Nakata, H. 177  
 Nallet, F. 172  
 Nambu, Y. 56, 176  
 Namyslowski, J.M. 197  
 Nanbu, K. 177  
 Nanda, T. 153  
 Nanopoulos, D.V. 56  
 Napolitano, M. 218  
 Nariai, H. 176  
 Narita, S. 152, 177  
 Nath, P. 176, 208  
 Nations, H.L. 193  
 Nauenberg, M. 37  
 Naughton, M.J. 177  
 Nazhestkina, E.I. 170  
 Nedelec, J.C. 141  
 Neek, D.K. 213  
 Neelakantan, K. 184  
 Neers, B.J. 212  
 Neff, J.E. 193  
 Negele, J.W. 142, 171, 198, 219  
 Neilson, D. 198  
 Nelkowski, H. 100  
 Nelson, D.R. 216  
 Nelson, E. 25, 100  
 Nelson, G.D. 114  
 Nemeth, J. 171  
 Nemirowsky, I.B. 213  
 Nencka-Ficek, H. 180, 201, 206  
 Nerenberg, M.A. 166  
 Neri, R. 201  
 Nesis, A. 114  
 Nester, J.M. 202  
 Nettleton, R.E. 199  
 Neudecker, B. 216  
 Neugebauer, G. 42, 205  
 Neukum, G. 48  
 Neumann, H. 29, 153  
 Neumann, R. 143  
 Neve, J.J. 152  
 New, D. 177  
 Newburn, R.L. 48  
 Newman, C.M. 25, 80  
 Newman, E.T. 202  
 Newton, D.A. 117  
 Newton, G.P. 212  
 Newton, R.G. 130  
 Ngô, Ch. 168  
 Ni, L.-a. 218  
 Nicholas, R.J. 177  
 Nichols, B.D. 141  
 Nichols, N. 58  
 Nicholson, L.K. 128  
 Nickel, F. 83  
 Nicolai, H. 201  
 Nicolas, G. 113  
 Nicolescu, B. 137  
 Nicolis, G. 132  
 Nicolson, G.D. 124  
 Niederle, J. 135  
 Nielsen, H.B. 181  
 Nierlich, M. 172  
 Nierwetberg, J. 179  
 Nietzel, Ch. 215  
 Nieuwenhuizen, P. van 116, 180  
 Niewodniczańska-Zawadzka, J. 152  
 Nifenecker, H. 158  
 Nikolaev, M.I. 152  
 Nikolaeva, A.A. 152  
 Nikoul, C.J. 58  
 Nilsson, B.S. 171  
 Nimtz, G. 152  
 Nishi, S. 152  
 Nishida, H. 218  
 Nishijima, K. 176  
 Nishimura, T. 48  
 Nishina, Y. 57, 177  
 Nishino, H. 176  
 Nishizawa, J.I. 175  
 Nistler, W. 128  
 Nitzan, A. 132  
 Niyogi, P. 157  
 Noci, G. 193  
 Nock, K.T. 48  
 Noels, A. 125  
 Nohel, J.A. 195  
 Noid, D. W. 93  
 Nongailard, B. 112  
 Nordlund, Å. 114  
 Nörenberg, W. 51, 117, 158  
 Normand, C. 210  
 Nosanow, L.H. 198  
 Nouchi, G. 113  
 Nouhailat, A. 122  
 Novikov, J.P. 80  
 Novikov, S.P. 153  
 Novotny, R. 156  
 Nowicki, A. 201  
 Noyes, R.W. 193  
 Noz, M.E. 135, 201  
 Núñez Regueiro, M. 217  
 Nurmikko, A.V. 152  
 Nuyts, J. 106, 201  
 Obayashi, S. 218  
 Obenshain, F.E. 219  
 Oberacker, V.E. 219  
 Obermair, G. 84  
 Obermair, G.M. 179  
 Obloh, H. 177  
 Ocelli, R. 210  
 O'Connell, J.S. 137  
 O'Connell, R.F. 182  
 Odagaki, T. 154  
 Oden, J.T. 58  
 Odera, M. 215  
 Odiijk, T. 172  
 Oed, A. 158  
 Oertzen, W. von 117, 156, 178  
 Oeschler, H. 117, 158  
 Oganessian, Yu.Ts. 33  
 Ogata, H. 156  
 Ogonowska, U. 122  
 Oh, S. 215  
 Ohara, T. 217  
 Ohta, N. 176  
 Ohta, T. 132  
 Oide, K. 215  
 Ojima, I. 176  
 Okłowicz, J. 171  
 Oleinik, O.A. 195  
 Olesen, D. 80  
 Oligier, J. 91, 170  
 Oliva, J. 198

- Olive, D.I. 116  
 Olmo, del M.A. 201  
 Olnon, F. 193  
 Olnon, F.M. 42  
 Olsson, J.E. 191  
 Olver, P.J. 195  
 Omari, R. 192  
 Omote, M. 176  
 Ong, N.P. 217  
 Ong, S. 134  
 Ono, K. 141  
 Ono, T. 48  
 Ono, Y. 152  
 Onofri, E. 106  
 Onuki, A. 132  
 Onyejekwe, O.O. 218  
 Oppenheim, A.K. 170  
 Oppermann, R. 149  
 O'Raiheartaigh, L. 129, 135  
 O'Raiheartaigh, L.C. 6, 80, 106  
 Oran, E. 141  
 Oran, E.S. 218  
 Ordidge, R.G. 112  
 Ordonez, C.E. 156, 219  
 Ordorico, S. d' 42  
 Orf, H. 178  
 Orland, H. 142  
 Orlandi, P. 141, 218  
 Orlandini, G. 137  
 Orszag, S.A. 59, 141, 170, 218  
 Ortenberg, M. von 152, 177  
 Orth, H. 143  
 Ortner, B. 152  
 Ortner, H. 158  
 Ortolani, S. 193  
 Osakabe, N. 176  
 Osaki, Y. 114, 125  
 Osborn, T.A. 130  
 Oshima, K. 141, 170, 177, 218  
 Oshima, Y. 141, 170, 218  
 Osswald, G.A. 218  
 Osterfeld, F. 158  
 Osterwalder, K. 25, 80, 100, 116  
 Oswald, C.E. 218  
 Otey, G. 141  
 Otsuka, E. 177  
 Ovadia, J. 218  
 Overstraeten, van R. 175  
 Owen, J.C. 142  
 Ozaki, H. 217  
 Paccalini, A. 215  
 Pace, E. 137  
 Paddack, S.J. 48  
 Page, M.A. 170  
 Paglietti, A. 199  
 Pajanne, E. 198  
 Pakull, M. 193  
 Pál, L. 65  
 Pal, M.K. 171  
 Palczewski, A. 195  
 Pallavicini, R. 193  
 Pallottino, G.V. 124  
 Pallua, S. 201  
 Palma, A. 135  
 Palmer, R.G. 192  
 Palmethofer, L. 152  
 Palmieri, C. 106  
 Palumbo, F. 142, 197  
 Pandharipande, V.R. 142, 198  
 Pandolfi, M. 141  
 Paneitz, S.M. 201  
 Pannicke, J. 158, 178  
 Pantaleo, A. 158  
 Pantaloni, J. 210  
 Pantelides, S.T. 175  
 Panzeri, E. 215  
 Papadakis, J.S. 70  
 Papadopolos, Z. 135, 201  
 Papanicolaou, G. 154, 154  
 Papanicolaou, G.C. 70, 80  
 Papineau, L. 22, 158  
 Parenti, C. 73  
 Paresce, F. 193  
 Parisi, G. 149  
 Parisi, J. 134  
 Park, D.A. 110  
 Park, J.Y. 156  
 Parker, L. 176  
 Parker, M.R. 177  
 Parker, S.C. 166  
 Parravicini, G. 135  
 Parsey, J.M. 175  
 Partridge, R.B. 109  
 Pascale, M.P. de 137  
 Pascher, H. 152, 177  
 Pascual, P. 194  
 Pasemann, F.B. 139, 201  
 Pasquale, F. de 132  
 Pasqualle, de R. 158  
 Passatore, G. 55  
 Passos, E.J.V. de 171  
 Passot, T. 218  
 Pastor, K. 177  
 Patera, A.T. 141, 170, 218  
 Paterno, L. 114  
 Pathak, K.N. 184  
 Pati, J.C. 56, 77  
 Patin, Y. 158  
 Patterson, Ch.W. 49  
 Patthey, F. 217  
 Patzelt, P. 158  
 Paul, P. 156  
 Paul, Th. 211  
 Pauli, H.C. 171  
 Paulus, U. 177  
 Pauthenet, R. 152  
 Pavón, D. 199, 212  
 Paya, D. 158  
 Payan, J.C. 210  
 Payan, R. 210  
 Pearsall, T.P. 177  
 Pearson, D.B. 116  
 Peby-Peyroula, J.C. 43  
 Peccei, R.D. 181  
 Pecelli, G. 93  
 Peerhossaini, H. 210  
 Peeters, D. 113  
 Peeters, F.M. 177  
 Peierls, R. 31  
 Pękalski, A. 115, 206  
 Pelevin, O.V. 152  
 Pelfer, P. 137  
 Peliti, L. 149  
 Pelletier, C.M. 152  
 Pelosi, V. 85  
 Pelte, D. 117, 178  
 Pelz, R.B. 218  
 Pelzer, W. 215  
 Pempinelli, F. 120, 120  
 Penchina, C.M. 122  
 Penfold, J. 128  
 Pengo, R. 178, 219  
 Pengo, R. 219  
 Penney, T. 149  
 Penrose, O. 84  
 Penrose, R. 100, 202  
 Pepper, M. 149, 177  
 Percival, J.C. 93  
 Percus, J.K. 154  
 Perdew, J.P. 187  
 Peregrine, D.H. 64  
 Perello, C. 164  
 Pérez-García, C. 164, 199  
 Pérez-Madrid, A. 199  
 Periaux, J. 218  
 Perrin, B. 210  
 Perrin, G. 158  
 Perrin, M. 106  
 Perrin, P. 158  
 Perroud, M. 135, 180  
 Perry, C.H. 177  
 Perry, M.J. 202  
 Persico, F. 115  
 Petcov, S.T. 181  
 Peters, N. 136, 170  
 Peterson, B.Á. 130  
 Pethick, C.J. 198  
 Petitjean, C. 158  
 Petkova, V.B. 63  
 Petrascu, M. 22  
 Petronzio, R. 191  
 Petrova, S.G. 63  
 Petry, H.R. 139, 197  
 Pettersen, B.R. 193



- Peyret, R. 148  
 Pfister, C.E. 116, 173  
 Pichard, J.L. 149  
 Picoche, J.C. 177  
 Picone, J.M. 170  
 Picone, M. 141, 218  
 Picozza, P. 137  
 Picus, G.E. 133  
 Pidgeon, C.R. 133, 152  
 Piechoki, W. 198  
 Piela, L. 113  
 Pieper, St.C. 198  
 Pieranski, P. 72  
 Pietiläinen, P. 142, 198  
 Pietrass, B. 217  
 Pietschmann, H. 37, 143  
 Pignanelli, M. 158  
 Piquet, O. 106  
 Pilch, K. 201  
 Piller, H. 177  
 Piña, E. 189  
 Pindor, A.J. 115  
 Pines, D. 142, 198  
 Piotrkowski, R. 152  
 Piquet, J. 170  
 Pirani, F.A.E. 120  
 Pirner, H.J. 158, 197, 198  
 Piron, C. 153  
 Pironneau, O. 154  
 Pirumov, U.G. 141  
 Pittich, E.M. 48  
 Pitz, E. 48  
 Piva, R. 141, 170  
 Piwinski, A. 215  
 Plakida, N. 217  
 Plakida, N.M. 115  
 Planel, R. 177  
 Plasil, F. 158, 219  
 Plastino, A. 142  
 Platten, J.K. 72  
 Plattner, R. 30  
 Plebafski, J.F. 135  
 Plesiewicz, W. 177  
 Ploszajczak, M. 171  
 Počanić, D. 156, 211  
 Pocheau, A. 210  
 Podio-Guidugli, P. 195  
 Poffé, N. 156  
 Pogson, R. 215  
 Pohl, M. 191  
 Poitou, J. 178, 219  
 Polasek, J. 170  
 Polatoglou, H.M. 152  
 Poldi, E. 137  
 Polikanov, S. 158  
 Polikarov, A. 100  
 Polivanov, M.C. 80  
 Polkinghorne, J.C. 37  
 Polla, D.L. 152  
 Pollaco, E.C. 117  
 Polley, L. 197  
 Polls, A. 209  
 Pomeau, Y. 72, 84, 210  
 Pommaret, J.-F. 135, 180  
 Ponce, V.H. 213  
 Poncet, A. 91  
 Ponomaryov, Y.G. 152  
 Pons, D. 122  
 Pons, J.M. 162  
 Poole, D.A. 177  
 Poole, D.E. 215  
 Popowicz, Z. 189  
 Porod, W. 152  
 Porowski, S. 152, 177  
 Portal, J.C. 152, 177  
 Porter, J. 14  
 Porubcán, V. 48  
 Poser, H. 100  
 Poskanzer, A.M. 178  
 Potapov, J.N. 48  
 Potier, J.P. 215  
 Potier-Ferry, M. 210  
 Pouget, J.P. 217  
 Poupeau, G. 48  
 Pouquet, A. 218  
 Poves, A. 138, 168, 209  
 Poyet, J.P. 218  
 Prakash, M. 171, 219  
 Preier, H. 152  
 Preier, H.M. 152  
 Preisendorfer, R.W. 64  
 Prejean, J.J. 192  
 Prelovšek, P. 217  
 Preobrazhensky, V.B. 217  
 Preparata, G. 56  
 Prigogine, I. 7, 31  
 Pritchard, W.G. 195  
 Procaccia, I. 132, 179  
 Prokhorov, M.B. 141  
 Prôme, M. 215  
 Prosnak, W.J. 148  
 Prosperi, D. 62, 137  
 Prosser, R.T. 130  
 Prost, J. 210  
 Prószyński, M. 142  
 Providência, J. da 171  
 Provis, D.G. 64  
 Provoost, D. 209  
 Provost, C. le 91  
 Provost, J. 125  
 Provost, J.P. 135  
 Prugovecki, E. 130  
 Pzystawa, J. 115  
 Puccio, P. 125  
 Pugh, H.G. 221  
 Pühlhofer, F. 117  
 Pulé, J.V. 216  
 Pulliam, T. 218  
 Pulvirenti, M. 203  
 Puoskari, M. 142, 149, 198  
 Pusz, W. 80  
 Pykett, I.L. 112  
 Pynn, R. 128  
 Qin-xi, X. 152  
 Quade, U. 158, 178, 219  
 Quadranti, G. 196  
 Quemada, D. 164  
 Quere, Y. 112  
 Quesne, C. 135, 180, 201  
 Quesseveur, P. 218  
 Quigley, J.M. 166  
 Quinard, J. 210  
 Quing-xi, C. 215  
 Quinn, J.J. 198  
 Quint, A.B. 219  
 Quirke, N. 166  
 Quitmann, D. 172  
 Quon, C. 218  
 Raay, H.B. van der 125  
 Rabin, Y. 216  
 Raby, S. 208  
 Racine, G.-A. 217  
 Radin, Ch. 116  
 Radliński, A.P. 177  
 Radok, R. 64  
 Rafael, E. de 118  
 Rainer, D. 198  
 Raiszadeh, F. 141  
 Raitio, R. 181  
 Rajagopalan, M. 158  
 Rakich, J.V. 170  
 Ram-Mohan, L.R. 152  
 Rama Mohana Rao, K. 201  
 Ramakrishnan, T.V. 184  
 Ramamurthy, V.S. 158  
 Ramayya, A.V. 168  
 Ramis, J.P. 126  
 Ramshaw, J.D. 141  
 Rañada, A.F. 98  
 Rasetti, M. 139, 180, 201  
 Rasing, Th.H.M. 177  
 Ratschbacher, L. 152  
 Ratzek, R. 158  
 Rauch, H. 128  
 Rauch, J. 153  
 Rauch, V. 219  
 Raviart, P.A. 91  
 Rawlinson, W.R. 215  
 Ray, A. 219  
 Raymond, A. 152, 177  
 Raymond, P. 218  
 Razeghi, M. 177  
 Reagor, D. 217  
 Reatto, L. 142, 198

- Rebbi, C. 129  
 Rebel, H. 158  
 Reddy, K.C. 141  
 Reed, M.C. 25  
 Reeve, P.A. 215  
 Regge, T. 201  
 Rehm, K.E. 117, 170  
 Rehm, R.G. 218  
 Reichstadt, P. 134  
 Reidemeister, G. 156  
 Reina, C. 201, 205  
 Reine, M.B. 152  
 Reinhard, H. 171  
 Reinhard, P.-G. 171, 209  
 Reinhardt, J. 168  
 Reisdorf, W. 158, 219  
 Reisenberger, J. 135, 180  
 Reissner, M. 217  
 Reizes, J.A. 218  
 Remler, E.A. 171  
 Renard, F.M. 191  
 Renard, M. 217  
 Renardy, M. 195  
 Rengarajan, T.N. 193  
 Renner, T. 156, 178  
 Repnow, R. 178  
 Résibois, P. 7  
 Reus, T. de 168  
 Reuter, M. 220  
 Rey de Luna, A. 210  
 Reynaud, S. 212  
 Reynolds, R. 14  
 Reynolds, W.C. 141  
 Rhee, J.W. 48  
 Rhoades-Brown, M.J. 219  
 Rhodes, Jr.E.J. 125  
 Ribotta, R. 210  
 Ribrag, M. 158  
 Ricco, G. 55, 61  
 Rice, T.M. 149, 217  
 Richard, J. 217  
 Richard, J.L. 106  
 Richard, J.-P. 124  
 Richards, M.A. 48  
 Richter, A. 62  
 Richter, D. 128  
 Richtmyer, R.D. 35  
 Ricken, L. 219  
 Rideau, G. 106, 153, 173  
 Rieckers, A. 79, 135, 180  
 Riedesel, H. 178  
 Ries, H. 158  
 Rigaux, C. 133, 152, 177  
 Rijken, T.A. 197, 211  
 Riley, J.J. 141, 170  
 Rimini, A. 135  
 Ring, P. 161  
 Ripa, P. 189  
 Ripamonti, C. 201  
 Ripken, G. 215  
 Riputeau, F. 215  
 Risset, J.C. 173  
 Ristig, M.L. 142, 198  
 Ristori, Ch. 158  
 Rith, K. 197  
 Rittenberg, V. 135  
 Ritter, H.G. 178  
 Rivera, J.M. 106  
 Rivet, M.F. 158  
 Rivoltera, G. 215  
 Rizk, Y.M. 218  
 Rizzi, A. 141, 170, 218  
 Roach, J.R. 48  
 Robbins, M.O. 217  
 Robert, J.L. 133, 152, 177  
 Roberts, J.E. 80, 153  
 Roberts, K.V. 91  
 Roberts, P.H. 72  
 Robertson, A.S. 172  
 Robertson, N.A. 212  
 Robinson, D.W. 116  
 Robinson, R.L. 219  
 Robinson, R.S. 125  
 Robledo, A. 187  
 Robley, R. 48  
 Robson, B.A. 92  
 Roca Cortes, T. 125  
 Rocca, A. 125  
 Rod, D.L. 93  
 Roddier, F. 112  
 Rodriguez, R. 106, 153  
 Roe, P.L. 141  
 Roeckl, E. 178  
 Roekaerts, D. 84, 106  
 Roesner, K.G. 90  
 Roger, A. 85  
 Rogers, J. 112  
 Rohe, R. 219  
 Rohlf, K. 69  
 Rohrllich, F. 162  
 Rolland, G. 152  
 Rolland, S. 152  
 Rollnik, H. 37  
 Römer, H. 139, 180  
 Ros, J. 138, 161  
 Rosa-Clot, M. 62  
 Rosati, S. 137, 138, 142, 198  
 Rösch, N. 215  
 Roseau, M. 64, 195  
 Rösel, F. 117  
 Rosen, L. 25  
 Rosen, N. 176  
 Rosenbaum, T.F. 149  
 Rosenberger, A.T. 182  
 Rosenblatt, M. 12  
 Rosenfeld, M. 170  
 Rosenman, I. 177  
 Rosensteel, G. 135  
 Rosenwald, R.D. 125  
 Rosenzweig, M. 177  
 Röser, S. 48  
 Rösgen, T. 136  
 Roshko, A. 136  
 Rosinski, J. 48  
 Rosoux-Clarisse, F. 113  
 Ross, C.L. 48  
 Rossen, P. von 215  
 Rossi, P. 193  
 Rössler, O.E. 179  
 Rossmanith, R. 215  
 Rossner, H.H. 117  
 Rotondi, A. 55  
 Rotter, I. 156  
 Roucau, C. 217  
 Rouet, A. 106  
 Roulet, B. 210  
 Rouse, C.A. 125  
 Rousseau, D. 58  
 Roussille, R. 152  
 Roux, A.Y. le 218  
 Rouxel, J. 217  
 Rowan-Robinson, M. 193  
 Rowe, D.J. 135, 171  
 Rowley, D. 158  
 Rowley, N. 156  
 Roy Chowdhury, A. 201  
 Roy, P. 208  
 Roy, Ph. 170  
 Roy, R. 218  
 Roychoudhry, R.K. 201  
 Royer, M. 133, 152  
 Ruas, V. 218  
 Rub, P. 177  
 Rubbert, P.E. 141  
 Rubí, J.M. 132, 164, 199, 212  
 Rubin, S.G. 141, 170, 218  
 Rubinstein, S. 135  
 Ruck, H.M. 135  
 Ruckenstein, E. 105  
 Rüdiger, A. 212  
 Rudnick, J. 179  
 Rudolph, K. 158, 178, 219  
 Ruegg, H. 180, 201  
 Ruelle, D. 80, 116  
 Ruffini, R. 124  
 Rühl, W. 6, 17  
 Ruhs, W. 152  
 Ruijsenaars, S.N.M. 73  
 Ruiz, E. 212  
 Rújula, A. de 56, 77  
 Rupp, G. 211  
 Ruppertsberg, H. 172  
 Rusanov, V. 90, 148  
 Rusanov, V.V. 141, 170, 218

- Russo, G. 158  
 Rustamov, K.A. 180  
 Rutten, R.J. 114  
 Ruvalds, J. 217  
 Ruyven, L.J. van 177  
 Ryan, M. 13  
 Ryzhov, O.S. 141  
 Ryzhov, Y.A. 141  
 Rzmaikina, T.V. 42  
 Sabadini, N. 196  
 Sabatier, J.P. 85  
 Sabatier, P.C. 120  
 Sachdev, S. 216  
 Sachrajda, C.T. 118  
 Saçlıoğlu, C. 180  
 Sadourny, R. 58  
 Saeed-Ul-Islam, M. 201  
 Sáenz, A.W. 130  
 Saffman, P.G. 136, 154  
 Sagretti, C. 85  
 Sagués, F. 199, 216  
 Sahm, C.-C. 158, 219  
 Sai-Halasz, G.A. 122  
 Saint-Lager, M.C. 217  
 Saint-Laurent, F. 158  
 Saint-Laurent, M.G. 219  
 Saintignon, P. de 158  
 Saio, H. 125  
 Saito, N. 93  
 Sakai, N. 176  
 Sakakibara, S. 106  
 Sakamoto, J. 176  
 Sakata, F. 171  
 Sakita, B. 176  
 Sakurai, Y.Y. 56  
 Salas, M.D. 170  
 Salem, M. 42  
 Saller, H. 135, 180  
 Salm, N. 48  
 Salme, G. 137  
 Salomaa, M.K. 219  
 Salomon, D. 217  
 Salpeter, E.E. 42  
 Salisbury, Z.W. 7  
 Saltmarsch, C. 215  
 Salvetti, G. 217  
 Samarskii, A.A. 90, 91  
 San Miguel Ruibaz, M. 84, 106  
 San Miguel, M. 132, 199  
 Sánchez, F. 48  
 Sanchez, N. 201  
 Sanchez-Palencia, E. 127, 195  
 Sancho, J.M. 199  
 Sanctis, E. de 86  
 Sandauer, A.M. 152  
 Sanden, W.A. van der 197  
 Sanderson, N.E. 117  
 Sandhya-Devi, K.R. 142  
 Sandle, W.J. 182  
 Sandler, D.G. 142, 198  
 Sandorfi, A.M. 156  
 Sandweg, G. 196  
 Sanfeld, A. 72, 105  
 Sangani, A.S. 154  
 Sankar, N.L. 141  
 Sanquer, M. 217  
 Sansores, L.E. 142  
 Santander, M. 135, 201  
 Santhanam, T.S. 201  
 Santo, J.A. de 130  
 Santo, R. 117, 156  
 Santoleri, R. 189  
 Santos, D.M.L.F. 212  
 Santos, E. 84  
 Santos, F.D. 168  
 Sanwal, N.B. 193  
 Sanzone, M. 62  
 Saraceno, M. 135, 140, 201  
 Sarantites, D.G. 117  
 Sarkadi, L. 213  
 Sarker, S. 149  
 Sarma, G. 149  
 Saruis, A.M. 137  
 Sasaki, R. 120, 176  
 Saso, T. 217  
 Satchler, G.R. 168  
 Sato, M. 116, 126, 156, 176, 217  
 Satofuka, N. 218  
 Satz, H. 56, 181, 221  
 Sauer, P.U. 197  
 Sauer, R. 175  
 Sauret, J. 215  
 Savel'ev, V.V. 141  
 Savitskaja, Ya.S. 217  
 Savo, B. 120  
 Sawicki, M. 177  
 Sawlewicz, L. 215  
 Sayre, D. 112  
 Scalia, A. 219  
 Scarsi, L. 124  
 Schaa, V. 215  
 Schaaf, M. 5  
 Schadel, M. 219  
 Schaerf, C. 61, 62, 137  
 Schapira, P. 126  
 Schardt, D. 168  
 Schärpf, O. 128  
 Scheck, F. 143  
 Scheib, U. 158  
 Scheid, W. 156, 22  
 Schempp, A. 215  
 Schenzle, A. 155  
 Schepkin, M.G. 181  
 Scherk, J. 116  
 Schicker, R. 219  
 Schierholz, G. 197  
 Schieve, W.C. 7, 28  
 Schiffer, J.P. 156, 219  
 Schildknecht, D. 56  
 Schilling, R. 212  
 Schillo, M. 215  
 Shimizu, J. 156  
 Schindewolf, U. 172  
 Schirmacher, W. 172  
 Schlenker, C. 217  
 Schlenker, M. 112  
 Schlicht, B. 152  
 Schloemer, E.C. 156  
 Schlueter, P. 168  
 Schmalz, K. 175  
 Schmid, G. 59  
 Schmid, W. 153  
 Schmidt, B.G. 205  
 Schmidt, H.-J. 111  
 Schmidt, K.E. 198  
 Schmidt, K.H. 219  
 Schmidt, M.G. 158  
 Schmidt, R. 215  
 Schmidt, W. 170  
 Schmidt-Böcking, H. 83  
 Schmidt-Kaler, Th. 42  
 Schmitt, C. 158  
 Schmitt, K.-H. 158  
 Schmutzer, E. 205  
 Schneider, E. 48  
 Schneider, W. 106  
 Schneider, W.J. 113  
 Schneider, W.R. 153, 173  
 Schneider-Muntau, H.J. 177  
 Schnering, H.G.v. 152  
 Schnupp, L. 212  
 Schoch, B. 137  
 Schoenauer, M. 218  
 Schöll, E. 179  
 Schomburg, W.K. 219  
 Schott, W. 215  
 Schrader, H. 158  
 Schrader, J. 213  
 Schrader, R. 100, 153, 160  
 Schramm, R. 213  
 Schraner, R. 84  
 Schrauf, G. 170  
 Schrieffer, J.R. 217  
 Schrijver, C.J. 193  
 Schröder, U. 152  
 Schröder, W. 218  
 Schroeder, A.N.F. 152  
 Schroeder, L.S. 221  
 Schroeder, W.U. 117  
 Schroeder-Gudenus, B. 100  
 Schroer, B. 100, 116  
 Schuck, P. 158, 161, 171  
 Schücker, T. 180  
 Schuhl, C. 137

- Schüll, D. 178  
 Schultheis, H. 158, 171  
 Schultheis, R. 158, 171  
 Schultz-Grunow, F. 148  
 Schulz, H.J. 217  
 Schulz, N. 198  
 Schumann, U. 218  
 Schuster, H.G. 34  
 Schütte, D. 138, 197  
 Schütte, G. 158  
 Schutz, B.F. 14, 205  
 Schwab, W. 219  
 Schwabl, F. 115  
 Schwalm, D. 178  
 Schwartz, B. 158  
 Schwartz, B.D. 152  
 Schwartz, L.W. 47  
 Schwartz, P. 105  
 Schwehm, G. 48  
 Schweizer, W. 201  
 Sciarrino, A. 135, 180, 201  
 Sciuto, S. 180  
 Scoppola, E. 153, 173  
 Scott, A.C. 93  
 Scott, D.K. 33  
 Scott, D.M. 191  
 Scott, M.W. 152  
 Scoville, N.Z. 42  
 Scufliare, R. 125  
 Searby, G. 210  
 Seaton, M.J. 42  
 Sedlmayr, E. 114  
 Seel, M. 113  
 Segal, I.E. 139, 201  
 Segel, R.E. 117  
 Seglar, P. 84  
 Segler, S. 215  
 Segransan, P. 217  
 Segur, H. 130, 189  
 Seifert, H.-J. 153  
 Seiler, D.G. 152, 177  
 Seiler, E. 80, 116, 159  
 Seiler, R. 73, 100, 106, 153, 211  
 Seilmeier, A. 182  
 Seiwert, M. 168  
 Sekanina, Y. 48  
 Sekowski, P. 177  
 Sekutowicz, J. 215  
 Seligman, T.H. 135  
 Selke, W. 206  
 Sellin, I.A. 213  
 Semushin, S.A. 170  
 Sen, D.K. 129  
 Sen, P.N. 154  
 Sen, S. 219  
 Sen, W.-b. 215  
 Sénéor, R. 116  
 Senosiain, M.J. 212  
 Sepúlveda, D. 135  
 Sepunaru, D. 135  
 Serdaroglu, M. 180  
 Serr, F.E. 171  
 Serra, A. 196  
 Serra, R. 179  
 Serre, H. 152, 177  
 Sessions, S.J. 177  
 Sethi, R.C. 215  
 Seze, L. de 149  
 Shafer, M.W. 149  
 Shah, S.T. 105  
 Sham, L.J. 177  
 Shang-Keng, M. 54  
 Shankar, R. 180  
 Shankar, V. 218  
 Shanks, S.P. 218  
 Shanley, J.F. 152  
 Shapira, D. 156, 219  
 Sharma, N.C. 152  
 Sharp, D.H. 6  
 Sharp, R.T. 135, 180  
 Shaw, R. 180  
 Shaw, W.T. 202  
 Sheng, P. 154  
 Sheng-Lai, S. 152  
 Shenoy, S.R. 184  
 Shepherd, P.J. 84  
 Sheppard, J.C. 215  
 Sher, M.A. 135  
 Shering, G. 215  
 Sherrington, D. 149, 192  
 Sherwin, M. 217  
 Shi-xin, Y. 152  
 Shidlovsky, V.P. 141  
 Shield, R.T. 21  
 Shigemitsu, J. 176  
 Shimoda, T. 156  
 Shimomae, K. 177  
 Shinagawa, K. 176  
 Shirafuji, T. 176  
 Shirayama, S. 218  
 Shirer, H.N. 185  
 Shivakumar, B. 156, 219  
 Shlomo, S. 171  
 Shlosman, S.B. 173  
 Shmilovich, A. 218  
 Shnider, S. 116, 129  
 Shoemaker, D.H. 212  
 Shokin, Y. 141  
 Shokin, Yu.I. 170  
 Shotov, A.P. 152  
 Shrivastava, K.N. 217  
 Shu, F.H. 193  
 Shurshalov, L.V. 170  
 Shyam, R. 117  
 Sick, I. 137  
 Sides, J. 170  
 Sidorov, A.F. 170  
 Siebert, S. 218  
 Sieniutycz, S. 199  
 Sigal, E.M. 153  
 Sigal, I.M. 116, 130  
 Sigaud, J. 158  
 Siggia, E. 179  
 Signorini, C. 219  
 Šijački, D.J. 201  
 Sikkeland, T. 219  
 Sikora, B. 158  
 Simiczyjew, A. 177  
 Simmons, A.J. 58  
 Simms, D.J. 53, 106, 153  
 Simó, C. 179  
 Simo, J.C. 195  
 Simon, B. 25, 153  
 Simon, Ch. 177  
 Simon, J.C.H. 153  
 Simon, R.S. 178, 219  
 Simoniuss, M. 30  
 Sinai, Y.G. 80, 153  
 Singer, I. 160  
 Singer, I.M. 116  
 Singh, R. 156  
 Singh, V. 208  
 Singwi, K.S. 198  
 Sinkkonen, J. 177  
 Sinzinkayo, S. 201  
 Sirieix, M. 148  
 Sirigue, M. 106, 153  
 Sirigue-Collin, M. 106, 153, 173  
 Sitaram, B.R. 180  
 Sitt, B. 218  
 Sivardière, J. 112, 206  
 Sjöstrand, J. 126  
 Skagerstam, B.-S. 188  
 Skalicky, P. 112  
 Sklyanin, E.K. 151  
 Sköllermo, G. 141  
 Skorka, S.J. 178, 219  
 Skumanich, A. 193  
 Slavnov, A. 106  
 Slawianowski, J.J. 139  
 Smeyers, P. 125  
 Smilansky, U. 23, 219  
 Smirnov, G.T. 42  
 Smirnov, V.A. 152  
 Smith, G. 193  
 Smith, G.R. 93  
 Smith, J. 134  
 Smith, L.F. 42  
 Smith, M.A. 114, 125, 193  
 Smith, P. 193  
 Smith, P.L. 193  
 Smith, R. 64  
 Smith, R.A. 142, 198  
 Smith, S.D. 152, 182

- Smola, E. 213  
Smolderen, J. 41  
Smolinski, J. 114  
Sneddon, L. 217  
Sniadower, L. 177  
Sniatycki, J. 129, 139  
Snider, R.F. 31  
Snipes, R.F. 24  
Soberman, R.K. 48  
Sobotta, G. 206  
Sod, G.A. 141, 218  
Soderblom, D.R. 193  
Soff, G. 168  
Soh, W.Y. 218  
Sokatchev, E. 153, 181  
Sokoloff, J.B. 180  
Soliani, G. 120  
Soliman, M.O. 170  
Solodukhov, G.V. 62  
Solomon, A.I. 135, 180, 201  
Soltwish, M. 172  
Sólyom, J. 65, 217  
Sommer, G. 126  
Sommerville, L.P. 213  
Somogyi, M. 175  
Sompolinsky, H. 192  
Son, D. 201  
Sondhi, M.M. 130  
Song, S. 158  
Sorba, P. 135, 180, 201  
Sorbello, R.S. 154  
Sorensen, T.S. 105  
Sorine, M. 91  
Sorochenko, R.L. 42  
Sosnowski, L. 133  
Soubbaramayer 141, 218  
Soufflot, A. 48  
Souillard, B. 116, 149, 153  
Souletie, J. 192  
Souriau, J.M. 106, 201  
Soyeur, M. 198  
Spalart, P.R. 218  
Spallucci, E. 201  
Sparrow, J.G. 48  
Sparzani, A. 135  
Specht, H.J. 158, 221  
Spellmeyer, B. 215  
Spencer, T. 25, 153, 173, 216  
Sperber, D. 22, 117  
Sperr, P. 117  
Speth, J. 158  
Spiegel, E.A. 71  
Spiegelberg, F. 175  
Spieker, B.-M. 216  
Spitzer, H. 191  
Spohn, H. 84, 116, 153, 173  
Spreng, W. 178  
Sprengel, D. 156  
Spruit, H.C. 114  
Sprung, D.W.L. 138  
Spurling, K. 215  
Squires, G.L. 112  
Sridhar, S. 217  
Srinivasan, V. 184  
Sromicki, J. 156  
Stachel, J. 100, 219  
Stademann, R. 156  
Stadling, R.A. 177  
Stähle, V. 48  
Stahler, S.W. 193  
Stamminger, R. 158  
Stanewsky, E. 148  
Stanga, M.L. 55  
Stanley, H.E. 149  
Starrfield, S.G. 125  
Staude, H.J. 48  
Stauffer, D. 149  
Stauffer, J.R. 193  
Stawikowski, A. 114  
Steadman, S. 219  
Steadman, S.G. 219  
Stebbins, R.T. 125  
Stébé, B. 177  
Stech, B. 56  
Steckelmacher, W. 213  
Steeb, W.-H. 179, 201, 216  
Steeds, J.W. 217  
Stefanini, A.M. 219  
Steger, J.L. 218  
Stein, J. 149  
Stein, R. 114  
Steinberg, S. 189  
Steinchen, A. 105  
Steiner, W. 217  
Steinmann, O. 11, 143  
Steinmayer, M. 219  
Stella, A.L. 201, 216  
Stelle, K.S. 181  
Stellingwerf, R.F. 125  
Stelte, N. 117  
Stelzer, H. 83, 178  
Stencel, R.E. 114, 193  
Stephani, H. 205  
Stephen, M.J. 186  
Sterbenz, S.M. 156  
Sterken, C. 125  
Stern, A. 188  
Stern, R.A. 193  
Sternberg, I. 152  
Sternberg, S. 120  
Sternheimer, D. 116, 153  
Steuer, D. 158  
Steuer, H. 158  
Stevens, G.A. 198  
Stewart, J.M. 10  
Steyerl, A. 112  
Stickler, D.C. 130  
Stinchcombe, R.B. 31, 149, 206  
Stirling, W.J. 191  
Stix, M. 114  
Stöcker, H. 171  
Stöckmann, H.-J. 172  
Stokes, J.P. 217  
Stokstad, R.G. 22  
Stone, A.P. 14  
Stoneham, A.M. 166  
Stora, R. 73, 106  
Stoufflet, B. 218  
Stradling, R.A. 122, 133, 152, 177  
Strampp, W. 201  
Strang, G. 154  
Strani, M. 141  
Straumann, N. 150  
Strauss, W. 73, 98  
Strauß, W. 158  
Strayer, M.R. 171, 219  
Streater, R.F. 153, 173  
Streett, C.L. 218  
Strehl, P. 215  
Streit, L. 153, 211  
Strobel, K. 152  
Strocchi, F. 73  
Stroeher, H. 158  
Strom, S.E. 193  
Strominger, A. 176  
Struckmeier, J. 215  
Strumolo, G.S. 218  
Strzalkowski, A. 156  
Stubbs, H. 177  
Su, M.D. 170  
Su, Z. 198  
Suck, J.B. 172  
Sudarshan, E.C.G. 135  
Sudupe, A.M. 132  
Suetoe, A. 206  
Suffczyński, M. 201  
Sugawara, H. 176  
Sugita, Y. 176  
Sugiyama, G. 171  
Suhov, L.V. 158  
Suhov, Y.M. 80  
Sulem, P.L. 218  
Sullenberger, M. 215  
Sultangazin, U.M. 170  
Sümmerer, K. 219  
Sun, X. 142  
Sundermeyer, K. 169  
Suski, T. 152  
Susskind, L. 37  
Suura, H. 176  
Suzuki, M. 132, 149, 177  
Suzuki, R. 176  
Suzuki, T. 158, 171  
Suzumura, Y. 217

- Svistov, A.E. 152  
 Swaffort, T.W. 218  
 Swart, J.J. de 137, 197  
 Sweby, P.K. 218  
 Swed, R. 221  
 Swimm, R.T. 93  
 Swisshelm, J.M. 218  
 Symanzik, K. 32, 153  
 Szabó, Gy. 213  
 Szabo, N. 106  
 Szekeres, P. 124  
 Szema, K.Y. 218  
 Szép, I.C. 175  
 Szépfalusy, P. 54  
 Sznajd, J. 206  
 Szprynger, A. 198  
 Szybisz, L. 198  
 Szymacha, A. 197  
 Szymánska, W. 133, 152  
 Szymanski, J. 198  
 Tabeling, P. 210  
 Tabor, M. 93  
 Taborda Duarte, J. 179  
 Tafel, J. 129  
 Taflin, E. 201  
 Tagirov, E.A. 80  
 Tagliacozzo, A. 217  
 Tagüena-Martínez, J. 142  
 Tajima, Y. 217  
 Takada, S. 217  
 Takada, Y. 152  
 Takagi, A. 215  
 Takami, H. 218  
 Takaoka, S. 177  
 Takasaki, E. 215  
 Takasugi, E. 94  
 Takatsuka, T. 142, 198  
 Takeda, S. 215  
 Takeda, T. 91  
 Takesaki, M. 20, 80  
 Takeshita, S. 176  
 Takeyama, S. 152  
 Takigawa, N. 219  
 Talagrand, O. 91  
 Taldenkov, A.N. 217  
 Talmi, I. 23  
 Talon, M. 106  
 Tamaddon, S. 172  
 Tamagaki, R. 142  
 Tamain, B. 158  
 Tamas, G. 137  
 Tamegai, T. 217  
 Tamura, T. 156, 219  
 Tanaka, M. 156  
 Tandon, S.N. 193  
 Tang, Y.C. 144, 145  
 Tanimura, O. 156, 168  
 Tannenbaum, M.J. 221  
 Tanuma, S. 177  
 Tanyi, G.E. 201  
 Tappert, F.D. 70  
 Tar, C. de 181  
 Tarafdar, S.P. 114  
 Tarnavsky, G.A. 170  
 Tarrach, R. 118, 194  
 Tarrago, X. 117, 158  
 Tarski, J. 106  
 Tartaglia, P. 132  
 Tartar, L. 195  
 Tasker, P.W. 166  
 Tasnabe, H. 48  
 Tassa, Y. 141  
 Tauber, G.E. 176  
 Taubes, C.H. 202  
 Tauscher, L. 143  
 Tausendfreund, B. 177  
 Tavera, G. 210  
 Taylor, J.G. 153  
 Taylor, J.H. 124  
 Taylor, R. 166  
 Taylor, T.D. 170, 218  
 Teese, R.B. 139  
 Tello-Llanos, R.A. 201  
 Temam, R. 18, 19, 58, 80, 90, 218  
 Temmerman, W.M. 115  
 Temple, S. 193  
 Teptin, G.M. 48  
 Terebey, S. 193  
 Terrasi, F. 219  
 Teyssandier, P. 212  
 Thacker, H.B. 151  
 Thaddeus, P. 42  
 Theobald, J.P. 158, 178  
 Theodorou, G. 152  
 Thielemann, J. 152  
 Thierry-Mieg, J. 201  
 Thies, H.-J. 170  
 Thiessen, H.A. 215  
 Thirring, W. 80, 116  
 Thomas, G.A. 149  
 Thomas, G.P. 64  
 Thomas, H. 84, 186  
 Thomas, L.E. 130  
 Thomas, R.M. 124  
 Thomasset, F. 141  
 Thompson, A. 14  
 Thornton, S.T. 156  
 Thum, C. 48  
 Tielens, A.G.G.M. 42  
 Tiem, D.H. 141  
 Tien, Z.J. 177  
 Tiereth, W. 211  
 Timmers, P.H. 197  
 Ting, L. 148, 170  
 Tip, A. 211  
 Tirapegui, E. 84, 179  
 Tirozzi, B. 173  
 Tivelli, A. 219  
 Tjon, J.A. 180  
 Toda, M. 93  
 Todorov, I.T. 6, 63, 80, 153, 201  
 Todorov, L.T. 162  
 Toepffer, C. 33  
 Tokhtas'ev, V.S. 48  
 Toki, H. 137  
 Tolar, J. 135  
 Toledano, J.C. 201  
 Toledo Piza, A.F.R. de 171  
 Tomandl, D. 48  
 Tombesi, P. 132  
 Tomei, C. 153  
 Tomimatsu, A. 176  
 Tomkin, J. 193  
 Ton-That, T. 135  
 Tondeur, F. 168  
 Tonomura, A. 176  
 Torell, L.M. 172  
 Torizuka, Y. 62  
 Toro, M. di 171  
 Torretti, R. 100  
 Tosatti, E. 115  
 Tosi, M.P. 115, 172  
 Tóth, I. 100  
 Toulouse, B. 152  
 Toulouse, G. 115, 116, 149, 192  
 Tourenc, Ph. 212  
 Townsend, P.K. 176  
 Trakas, C. 210  
 Trautman, A. 116, 129  
 Trautmann, D. 117  
 Trautmann, W. 156  
 Travaglini, G. 217  
 Traving, G. 114  
 Travis, J.R. 91  
 Trebbia, P. 112  
 Trebin, H.R. 177  
 Treichel, M. 156  
 Tremblay, A.-M.S. 199  
 Treu, W. 156  
 Triboulet, R. 152  
 Trombik, W. 156  
 Tronc, D. 215  
 Trowbridge, C.W. 215  
 Troyon, F. 91  
 Trulsen, J. 48  
 Truman, A. 106, 153, 173  
 Trylski, J. 152  
 Trzeciakowski, W. 177  
 Tscharnuter, W. 42  
 Tschöp, E. 219  
 Tserruya, I. 219  
 Tseytlin, A.A. 176  
 Tsidilkovskii, I.M. 133  
 Tsutsumi, K. 217

- Tua, P.F. 217  
 Tubbs, L.E. 117  
 Tuck, E.O. 64  
 Tucker, J.R. 217  
 Tucker, R.W. 180  
 Tuckerman, L. 218  
 Tulczyjew, W.M. 107  
 Tunstall, D.P. 177  
 Turchak, L.I. 218  
 Turchetti, G. 47, 85  
 Turck-Chieze, S. 137  
 Turkel, E. 170, 218  
 Turner, J.S. 28  
 Turner, M.G. 170  
 Turski, L.A. 199  
 Tutin, I.V. 80  
 Tüttö, I. 217  
 Tuyl, A.H. van 47  
 Twarque-Ali, S. 180  
 Twersky, V. 130, 154  
 Tzara, C. 137  
 Überall, H. 130  
 Uchida, S. 177  
 Uchino, K. 215  
 Udagawa, T. 219  
 Uemura, Y. 152  
 Ueta, M. 57  
 Uhlenbrock, D.A. 153  
 Uihlein, C. 177  
 Ulrich, M.H. 42  
 Ulrich, R.K. 125  
 Umar, A.S. 219  
 Umar, S. 171  
 Umezaki, H. 176  
 Underhill, A.B. 193  
 Une, T. 171  
 Ungarish, M. 141  
 Unruh, W.G. 124  
 Unterberger, A. 126  
 Urbano, J.N. 171  
 Urusov, A.I. 170  
 Vachat, R. du 58  
 Vadyak, J. 170  
 Vahl Davis, G. de 218  
 Valassiades, O. 152  
 Valero, S. 215  
 Valle, J.W.F. 106  
 Vallée, G. 135  
 Vallier, J.C. 177  
 Vallieres, M. 142  
 Valsakumar, M.C. 184  
 Vanagas, V. 135  
 Vancura, A. 17  
 Vanden Berghe, G. 180  
 Vandenbosch, R. 156, 219  
 Vanderborck, G. 72  
 Vanderriest, C. 212  
 Vannimenu, J. 149  
 Vannucci, F. 134  
 Vanstenkiste, G.C. 41  
 Vanysek, V. 48  
 Varadan, V.K. 130, 154  
 Varadan, V.V. 130, 154  
 Varadhan, S.R.S. 173  
 Vardya, M.S. 114  
 Varea, C. 187  
 Varma, C.M. 217  
 Varshalovich, D.A. 42  
 Vary, J.P. 33, 142, 198  
 Vashishta, P. 198  
 Vass, E. 177  
 Vasseur, G. 85  
 Vassilyev, V.A. 122  
 Vasudevan, R. 184  
 Vatsa, V.N. 170  
 Vaughan, A.H. 193  
 Vautherin, D. 171  
 Vavrinova, M. 170, 218  
 Vaz, L.C. 219  
 Vechten, J.A. van 175  
 Vega, H.J. de 151  
 Veilleux, L.A. 177  
 Velarde, M.G. 7, 31, 72, 105, 164  
 Veldman, A.E.P. 141, 170  
 Velo, G. 25, 73, 120  
 Ven, A.A.F. van de 88  
 Venables, H. 180  
 Venaglioni, A. 55  
 Venkatapathy, E. 218  
 Venkataraman, G. 184  
 Venkatesh, Y.V. 68  
 Vento, V. 137  
 Verburgh, Y. 72  
 Verdier, J.L. 180  
 Verdíyev, Y.A. 180  
 Vergara-Caffarelli, G. 195  
 Verhaar, B.Y. 30  
 Verhulst, F. 195  
 Verje, C. 152  
 Verma, G. 217  
 Verma, R.P. 193  
 Vermaseren, J.A.M. 134  
 Vermeulen, B. 219  
 Vermeulen, D. 158  
 Verri, M. 80, 135  
 Vester, F. 196  
 Veuillen, J.Y. 217  
 Viala, Y. 48  
 Viallet, C.M. 176  
 Viano, G.A. 85  
 Viénot, J.Ch. 112  
 Vieren, J.P. 177  
 Vignes-Adler, M. 105  
 Vilela Mendes, R. 173  
 Villain, J. 149  
 Vincent, G. 122  
 Vinet, L. 116, 129, 135  
 Vinh Mau, R. 137  
 Viola, Jr.V.E. 117  
 Viollet, P.L. 218  
 Visscher, B. 158  
 Vitiello, G. 180  
 Viviand, H. 141  
 Viviani, M. 198  
 Voge, D.D.W. 152  
 Vogelius, M. 154  
 Vogl, P. 152  
 Voisin, P. 177  
 Voit, H. 156, 211  
 Volant, C. 158, 168  
 Völkel, A.H. 66  
 Volkov, A.B. 171  
 Volkov, A.F. 217  
 Volkov, V.V. 33  
 Volt, H. 156  
 Vooren, A.I. van de 59  
 Voos, M. 177  
 Vora, M.K. 105  
 Vorkees, B.H. 14  
 Voros, A. 93, 106  
 Vos, G. de 152, 177  
 Voskresensky, G.P. 170  
 Vourvopoulos, G. 156  
 Vries, C. de 62, 137  
 Vujicic, M. 113,201  
 Vulgaris, E. 219  
 Wachter, P. 152, 217  
 Wade, R.H. 112  
 Wadia, S. 208  
 Wagenberg, J. 84  
 Wagensberg, J. 132  
 Wagner, H. 216  
 Wagner, R.J. 152, 177  
 Wagner, W. 117, 191  
 Wahl, W. 178  
 Wai, J.C. 141  
 Walcher, T. 83  
 Walgraef, D. 210  
 Walker, J.R. 166  
 Walker, M. 14  
 Walker, M.B. 217  
 Walker, R.M. 48  
 Wallace, D.J. 216  
 Wallace, J.M. 136  
 Wallace, P.R. 133  
 Wallenstein, R. 143  
 Wallis, R.F. 177  
 Walls, D.F. 182  
 Walmsley, C.M. 42  
 Walsh, T.F. 56, 134  
 Walstedt, R.E. 192  
 Walter, F.M. 193  
 Wambach, J. 197  
 Wan-xing, R. 152

- Wang, P.K.C.21  
 Wang, R.Q. 141  
 Wang, W.-L. 152  
 Wang, Y. 218  
 Wang, Z.Z. 217  
 Wannier, P.G. 193  
 Ward, H. 212  
 Warming, R.F. 141, 170  
 Warnecke, P.177  
 Warren Jr., W.W. 172  
 Warren, J.L. 215  
 Warwick, A. 178  
 Wasan, D.T. 105  
 Waseda, Y. 204  
 Wasilewski, S. 177  
 Wasilewski, Z. 152  
 Weber, B.A. 152  
 Weber, E.W. 143  
 Weber, J. 175  
 Weber, T. 135, 201  
 Weber, W. 219  
 Webman, I. 154  
 Weder, R. 153  
 Wegner, F. 149, 201, 216  
 Wegner, F.J. 37, 54  
 Wegner, G. 125  
 Wehrse, R. 193  
 Weidenmüller, H.A. 23, 30, 51  
 Weidl, I. 178, 219  
 Weidman, R.S. 113  
 Weidner, P. 196  
 Weigert, A. 125  
 Weiguny, A. 161  
 Weik, F. 178  
 Weil, K.G. 172  
 Weiland, T. 215  
 Weiler, M.H. 152  
 Weinberg, B.C. 170  
 Weinberg, H. 70  
 Weinberg, J.L. 48  
 Weiner, R. 117  
 Weirauch, W. 128  
 Weise, W. 61, 137, 197  
 Weiss, M.S. 171  
 Weller, W. 206  
 Welling, J.S. 202  
 Wells, R. 185  
 Welt, H.J. 215  
 Wenger, L.E. 192  
 Werle, J. 201  
 Wermelskirchen, C. 215  
 Vermes, N. 191  
 Werner, E. 197  
 Werth, G. 143  
 Wess, J. 37, 77, 100  
 Wesson, J.C. 182  
 West, B.J. 146, 179, 216  
 Westerholt, K. 206  
 Westfreid, J.E. 210  
 Westmeier, W. 158  
 Weston, V.H. 130  
 Whangbo, M.H. 217  
 Wheeler, J.A. 160  
 Wheeler, J.C. 125  
 Wherrett, B.S. 182  
 Whipple, F.L. 48  
 White, O.R. 114  
 Whitworth, H.M. 177  
 Wickert, J. 100  
 Wiegel, F.W. 121  
 Wiemann, H. 178  
 Wiese, U.-J. 197  
 Wietschorke, K.H. 168  
 Wiggins, J. 219  
 Wightman, A. 25, 73  
 Wightman, A.S. 153  
 Wilcke, W.W. 117  
 Wilcox, C.H. 130  
 Wilczyński, J. 117  
 Wilde, P. de 180, 201  
 Wilets, L. 197  
 Wilhelm, W. 215  
 Wilke, H. 105  
 Wilke, W. 158  
 Wilkins, B.D. 158  
 Willemsen, J. 37  
 Willet, S.J. 156  
 Williams, D.N. 106, 153  
 Williams, F.A. 136  
 Wilschut, H.W. 156  
 Wilson, E.J.N. 215  
 Wilson, J.A. 217  
 Wilson, T.L. 42  
 Winget, D.E. 125  
 Winicour, J. 14  
 Wink, J.E. 42  
 Winkler, W. 212  
 Winnewisser, G. 42  
 Winter, H. 83  
 Winter, J. 171  
 Winter, R. 172  
 Winter, U. 175  
 Winternitz, P. 135, 180, 189, 201  
 Winther, A. 219  
 Wiringa, R.B. 198  
 Wirth, G. 219  
 Wirz, H.L. 41  
 Witala, H. 156  
 Withers, R.L. 217  
 Witowski, A.M. 152  
 Witt Huberts, P.K.A. de 137  
 Witt, B.S. de 176  
 Witt-Morette, C. de 176  
 Wittman, M. 152  
 Wlochowicz, R. 48  
 Wolf, H. 48  
 Wolf, K.B. 135, 189, 201  
 Wolf, K.L. 117  
 Wolf, R. 168  
 Wolff, C.L. 125  
 Wolff, P.A. 152  
 Wolff, W.F. 192  
 Wölfle, P. 115  
 Wolfshtein, M. 170  
 Wolfstädter, B. 177  
 Wollmark, J.T. 122  
 Wolschin, G. 171  
 Wolstencroft, R.D. 48  
 Wolter, H.H. 33  
 Wong, C.W. 137, 144, 145  
 Wong, C.Y. 171  
 Wong, M. 217  
 Wong, S.S.M. 144, 145  
 Wong, Y.S. 170  
 Wonneberger, W. 217  
 Woo, C.-W. 142, 198  
 Wood, A.M. 196  
 Wood, K.S. 193  
 Woodhouse, N.M.J. 53  
 Woodley, M.D. 215  
 Woodward, P.R. 141  
 Woodworth, J.G. 158  
 Worden, S.P. 125  
 Worlock, J.M. 177  
 Wornom, S.F. 170  
 Woronowicz, S.L. 116  
 Wortmann, F.X. 148  
 Wosiński, T. 175  
 Woude, A. van der 158, 168  
 Wray, A. 170  
 Wriedt, H. 134  
 Wright, E.L. 193  
 Wright, K.O. 114  
 Wruck, D. 175  
 Wrulich, A. 215  
 Wu, H.M. 141  
 Wu, P.-J. 217  
 Wu, T.T. 211  
 Wu, T.Y. 21, 64  
 Wu, W.-Y. 217  
 Wu, X.-H. 170, 218  
 Wulfman, C.E. 180  
 Wulfsohn, A. 106  
 Wunderlin, A. 93  
 Wuytack, L. 47  
 Wyder, P. 177  
 Wygnanski, I. 136  
 Wynn-Williams, C.G. 42  
 Xanthopolous, B.C. 205  
 Xia, D. 126, 153  
 Xia-ling, G. 215  
 Xu, Q.-S. 170  
 Xu, S.-l. 215  
 Yafaev, D.R. 153



- Yajima, K. 106, 116  
 Yakhot, V. 218  
 Yamada, K. 177  
 Yamanouchi, C. 177  
 Yamaya, K. 217  
 Yamazaki, M. 205  
 Yan-Wen Ma 218  
 Yanenko, N.N. 58, 91, 141, 170  
 Yang, J.Y. 170  
 Yang, M.L. 141  
 Yang, R.-j. 218  
 Yano, Y. 215  
 Yaraneri, H. 152  
 Yasskin, P.B. 129  
 Yavin, A.I. 158  
 Yearian, M.R. 158  
 Yeates, C.M. 48  
 Yee, H.C. 170  
 Yen, S.M. 170  
 Yeung, W.-S. 218  
 Yntema, J. 83  
 Yoneya, T. 176  
 Yong-nian, Y. 152  
 Yoon, M. 215  
 York, Jr.J.W. 202  
 Yoshida, K. 106  
 Yoshiè, T. 176  
 Yoshihara, H. 141  
 Yoshihiro, K. 177  
 Yoshizawa, Y. 218  
 Young, A. 193  
 Young, A.P. 192  
 Yu, L. 198  
 Yuen, S.Y. 152  
 Yvon, J.P. 91  
 Zablotitzky, J.G. 142, 198  
 Zablotty, J.R. 215  
 Zachary, W.W. 130  
 Zahar, E.G. 100  
 Zahel, W. 58  
 Zahn, J.-P. 71, 114  
 Zahn, W. 135  
 Zak, J. 201  
 Zakharov, V.E. 80, 153  
 Zakrzewski, W.J. 151  
 Zakula, R. 217  
 Zalesak, S. 141  
 Zaleski, S. 210  
 Zamick, L. 119  
 Zamora, M. 164, 210  
 Zandbergen, P.J. 59  
 Zanetti, L. 170  
 Zang, T.A. 141, 170, 218  
 Zankel, H. 82, 87  
 Zannetti, L. 141  
 Zaroni, R. 125  
 Zarembo, E. 187  
 Zarembo, Z. 215  
 Zarembovitch, A. 112  
 Zasavitsky, I.I. 152  
 Zaumseil, P. 175  
 Zavetova, M. 152  
 Zavialov, O.J. 80  
 Zawadowski, A. 217  
 Zawadski, W. 133, 152  
 Zawischa, D. 158  
 Zdanowicz, L. 177  
 Zdanowicz, W. 177  
 Zech, E. 215  
 Zeh, H.D. 200  
 Zeilik, M. 193  
 Zeilinger, A. 112, 128  
 Zeitler, E. 112  
 Zelazny, R. 215  
 Zel'Dovich, Y.B. 109  
 Zemel, A. 152  
 Zepeda, A. 32, 135  
 Zerull, R. 48  
 Zetterberg, P.O. 193  
 Zetti, G. de 109  
 Zetti, A. 217  
 Zeyen, C.M.E. 128  
 Zeytounian, R.K. 27  
 Zhang, D.-L. 217  
 Zhang, P.H. 219  
 Zhang, X.J. 217  
 Zhi-pu, Y. 175  
 Zhou, G. 198  
 Zhu, S.Y. 156  
 Zhu, Y.-L. 141, 170  
 Zhu, Y.-l. 218  
 Zhuc, V.I. 141  
 Ziegler, B. 137  
 Ziekiewicz, O.L. 58  
 Ziemczonek, L. 201  
 Zienkiewicz, O.C. 218  
 Ziep, O. 152  
 Zimanyi, G.T. 206  
 Zimek, Z. 215  
 Zingl, H. 82, 87  
 Zinn, W. 177  
 Zinn-Justin, J. 37, 77  
 Zinner, E. 48  
 Zinth, W. 182  
 Zippelius, A. 192  
 Zittartz, J. 192, 206  
 Zitzewitz, P.W. 143  
 Zoubek, N. 215  
 Zuckerman, B. 42  
 Zuckerman, G.J. 180  
 Zueva, N.M. 141  
 Zuker, A.P. 209  
 Zumino, B. 100, 160  
 Zuppiroli, L. 217  
 Zwanc, N. 219  
 Zwanzig, R. 132

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Example 1:

MEASUREMENT AND IMPROVEMENT OF MEMORY ALLOCATION  
IN A PROCESS COMPUTER

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A good example of a heading to a conference report. It contains all necessary information.

Example 2:

$V$  and  $W$  are white Gaussian random vectors sequences, with :

$$E[x_0] = \hat{x}_0, \quad E[x_0 x_0^T] = P_0 \quad I.1$$

$$E[W] = 0, \quad E[W_k W_k^T] = Q_k \delta_{kj} \quad I.2$$

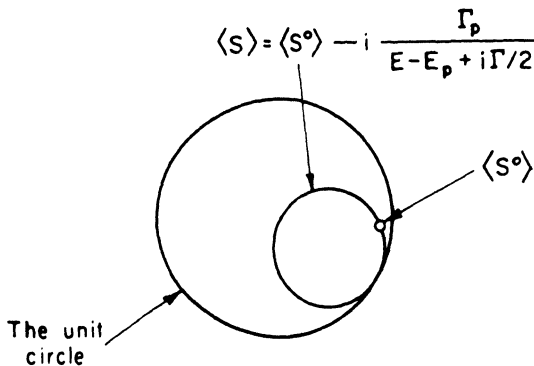
$$E[V] = 0, \quad E[V_k V_k^T] = R_k \delta_{kj} \quad I.3$$

where:

$$\delta_{kj} = \begin{cases} 0 & , k \neq j \\ 1 & , k = j \end{cases}$$

is the Kronecker delta and  $P_0, Q_k$  and  $R_k$  are positive definite

An example of a formula which has to be rejected: The author ignores correct spacing, makes no clear distinction between subscripts and the letters on line, each line bends downwards, the letters are out of focus, etc.

Example 3:

This is an excellent sample for the size of the letters on enlarged figures. The letters have to be enlarged accordingly.