

Author Index to Volume 48

- Alexander, N., Amos, K., and Berge, L.—
Corrigendum to: Mott-Schwinger effect
in the elastic scattering of neutrons
from ^{209}Bi 737
- Altaf, M.—
See Chaudhry, M. A. 887
- Amos, K.—
See Alexander, N. 737
- Anninos, P., Bernstein, D., Brandt, S.,
Hobill, D., Seidel, E., and Smarr, L.—
Oscillating apparent horizons in
numerically generated
spacetimes 1027
- Bachor, H.-A.—
See Stevenson, A. J. 971
- Barker, F. C.—
p-Wave strength in the low-energy
 $^7\text{Li}(p, \gamma)^8\text{Be}$ cross section 813
- Bean, R. A.—
See Dai, X. J. 939
- Berge, L.—
See Alexander, N. 737
- Bernstein, D.—
See Anninos, P. 1027
- Bhave, R. N., and Cooper, R.—
Two- and three-body ion-electron
recombination rate coefficients in
neon 503
- Bilal, M.—
See Chaudhry, M. A. 887
- Blair, D. G.—
See Tobar, M. E. 1007
- Brandt, S.—
See Anninos, P. 1027
- Brennan, M. J.—
See Newman, D. S. 543
- Brown, K. L., and Fletcher, J.—
Electronic energy distribution function at
high electron swarm energies in
neon 479
- Brunger, M. J., Houghton, R. K., and
Teubner, P. J. O.—
The elastic scattering of 20 eV electrons
from magnesium 71
- Chaudhry, M. A., Rana, A. M., Altaf, M.,
and Bilal, M. S.—
Optical characteristics of some binary
and ternary phosphate glasses 887
- Chen, X.—
See Zhao, J. 731
- Cooper, R.—
See Bhave, R. N. 503
- Cooper, R., and Makabe, M.—
Introduction to Gaseous Electronics
issue 333
- Cram, L., and Ye, T.—
Adaptive deconvolution of radio
astronomical images 113
- Dai, X. J., Hamberger, S. M., and
Bean, R. A. —
Reactive plasma species in the
modification of wool fibre 939
- Date, M.—
Recent progress in high field
magnetism 187
- Davidson, M. G., Dewar, R. L.,
Gardner, H. J., and Howard, J.—
Hamiltonian maps for Helix magnetic
islands 871
- Davis, T. J.—
See Gao, D. 103
- Delbourgo, R.—
See Jones, N. R. 55
- Dewar, R. L.—
See Davidson, M. G. 871
Petrzilka, V. 691
- Di Marzio, D., Szajman, J., and
Mazzolini, A.—
A fibre optic sensor for high-velocity
measurement of projectiles driven by
hot gases 79
- Elford, M. T. E.—
The ratio D_T/μ for electrons in water
vapour at 294 K 427
- Everett, V., Jones, K. T., Scelsi, G. B.,
and Woolsey, G. A.—
Measurement of electrical discharge
parameters using optical fibres 527
- Fletcher, J.—
See Brown, K. L. 479
- Gao, D., Davis, T. J., and Wilkins, S. W.—
X-ray phase-contrast imaging study of
voids and fibres in a polymer
matrix 103
- Gardner, H. J.—
See Davidson, M. G. 871
- Gray, M. B.—
See Stevenson, A. J. 971
- Green, H. S.—
Contiguity and the quantum theory of
measurement 613

- Greentree, A.—
 See Veitch, P. J. 999
- Hamberger, S. M.—
 See Dai, X. J. 939
- Hamilton, M. W.—
 See Veitch, P. J. 999
- Harb, C. C.—
 See Stevenson, A. J. 971
- Hassan, M. A., Yousef, A. E. R., and Hassan, S. S. A.—
 Short-range correlation effect on p-p elastic scattering with the composite model 821
- Hassan, S. S. A.—
 See Hassan, M. A. 821
- Hayashi, Y.—
 See Tachibana, K. 469
- Heng, I. S.—
 See Tobar, M. E. 1007
- Hines, K. C.—
 See Smith, B. J. K. 739, 775
- Hobill, D.—
 See Anninos, P. 1027
- Hollenberg, L. C. L.—
 Beyond the variational principle in quantum field theory 39
- Hori, H.—
 See Sakurai, T. 515
- Hosokawa, Y., Kitajima, T., and Makabe, T.—
 Modeling and measurement of submicron particles in rf plasmas in Ar 439
- Houghton, R. K.—
 See Brunger, M. J. 71
- Howard, J.—
 See Davidson, M. G. 871
- Iinuma, K., and Takebe, M.—
 Transport analysis of rf drift-velocity filter employing crossed dc and ac electric fields for ion swarm experiments 491
- Inoue, Y.—
 See Sakurai, T. 515
- Ivanov, E. N.—
 See Tobar, M. E. 1007
- Jones, K. R. W.—
 Newtonian quantum gravity 1055
- Jones, K. T.—
 See Di Marzio, D. 79
- Jones, N. R., and Delbourgo, R.—
 Meson supermultiplet decay constants 55
- Kifune, T.—
 The prospects for very high energy gamma ray astronomy 305
- Kim, H.—
 See Lee, T.-N. 321
- Kim, Y. S.—
 See Lee, T.-N. 321
- Kimura, T.—
 Basic and applied research at NTT and postgraduate education 233
- Kitajima, T.—
 See Hosokawa, Y. 439
- Kobayashi, S.—
 See Sakurai, T. 515
- Kumar, K.—
 Swarms in periodically time dependent electric fields 365
- Kuzumoto, M.—
 See Yagi, S. 411
- Leckey, R., and Riley, J.—
 Photoelectron spectroscopy of solids using synchrotron radiation 217
- Lee, T.-N., Yoon, M., Kim, Y. S., and Kim, H.—
 The Pohang light source 321
- Lerner, P. B.—
 Laser-modified long-range forces between neutral atoms 849
- Lingbiao, G.—
 Cultural influences on physics education 259
- Linthorne, N. P.—
 See Tobar, M. E. 1007
- Liu, D.-H.—
 See Xie, R.-H. 907
- Liu, L.—
 See Wang, Y.-Z. 45
- Lowke, J. J.—
 See Morrow, R. 453
- Lowke, J. J., and Morrow, R.—
 Theory of chemical processing using pulsed precipitators 403
- McCarthy, I. E. —
 Distorted-wave Born and impulse approximations for electron-atom ionisation 1
- McClelland, D. E. —
 An overview of recycling in laser interferometric gravitational wave detectors 953
 See Stevenson, A. J. 971
- MacDonald, R. J.—
 See Shen, Y. G. 713
- Maeda, K.—
 See Robson, R. E. 335

- Makabe, T.—
 See Cooper, R. 333
 Hosokawa, Y. 439
 Robson, R. E. 335
- Mazzolini, A.—
 See Di Marzio, D. 79
- Mehta, N. P.—
 See Patel, L. K. 635
- Melrose, D. B.—
 See Usov, V. V. 571
- Mitroy, J.—
 Large basis calculation of
 positron-hydrogen scattering at low
 energies 645
 Positronium-proton scattering at low
 energies 893
- Morrow, R.—
 See Lowke, J. J. 403
- Morrow, R., and Lowke, J. J.—
 Electrical breakdown in air and in
 SF₆ 453
- Morton, A. J., and Sargood, D. G.—
 Thermonuclear reaction rates for
 reactions leading to $N = 28$
 nuclei 125
- Mould, J.—
 Progress in measuring the Hubble
 constant 1093
- Mukherjee, J., and Roy Chowdhury, A.—
 Scattering of solitons from the density
 gradient of a relativistic bounded
 plasma with variable streaming 697
- Munch, J.—
 See Veitch, P. J. 999
- Nakamura, K., Suzuki, K., and Sugai, H.—
 Helicon wave measurements in an
 inductively coupled
 magnetoplasma 461
- Nakamura, Y.—
 Drift velocity and longitudinal diffusion
 coefficient of electrons in CO₂-Ar
 mixtures and electron collision cross
 sections for CO₂ molecules 357
- Ness, K. F.—
 Velocity distribution functions and
 transport coefficients of electron
 swarms in gases in the presence of
 crossed electric and magnetic
 fields 557
 See White, R. D. 925
- Newman, D. S., and Brennan, M. J.—
 The dielectric barrier discharge: A bright
 spark for Australia's future 543
- O'Connor, D. J.—
 See Shen, Y. G. 713
- Ogura, J.—
 See Sakurai, T. 515
- Okumura, T.—
 See Sakai, Y. 419
- Ottaway, D.—
 See Veitch, P. J. 999
- Patel, L. K., and Mehta, N. P.—
 An exact model of an anisotropic
 relativistic sphere 635
- Petrzilk, V., and Dewar, R. L.—
 Chirality-dependent plasma density
 profile changes from helicon wave
 ponderomotive forces 691
- Quinn, P. J.—
 Modelling the large scale structure of the
 Universe after COBE 1083
- Ramakrishnan, S.—
 Technological challenges in thermal
 plasma production 377
- Rana, A. M.—
 See Chaudhry, M. A. 887
- Riley, J.—
 See Leckey, R. 217
- Robson, R. E.—
 The steady state Townsend experiment:
 Comparison of Boltzmann equation
 and diffusion equation analysis 347
 Comment on FTI method and transport
 coefficient definitions for charged
 particle swarms in gases 677
 See White, R. D. 925
- Robson, R. E., Maeda, K., Makabe, T.,
 and White, R. D.—
 Frequency variation of the mean energy
 of r.f. electron swarms 335
- Roy Chowdhury, A.—
 See Mukherjee, J. 697
- Sakai, Y., Okumura, T., and
 Tagashira, H.—
 Measurement of electron impact
 ionisation and attachment coefficients
 in NO₂/He gas mixtures and estimated
 electron collision cross sections for
 NO₂ 419
- Sakurai, T., Kobayashi, S., Ogura, J.,
 Inoue, Y., and Hori, H.—
 Dissociation processes of SiCl₄ and
 plasma parameters measured by
 transient spectroscopy at the beginning
 of a SiCl₄-helium dc discharge 515
- Sargood, D. G.—
 See Morton, A. J. 125

- Scelsi, G. B.—
See Di Marzio, D. 79
- Seidel, E.—
See Anninos, P. 1027
- Shen, Y. G., Yao, J., O'Connor, D. J.,
 Wandelt, K., and MacDonald, R. J.—
 Studies of Cu/Ru(0001) and
 Cu/O/Ru(0001) surfaces by LEIS,
 AES and LEED 713
- Sinclair, R.—
 Computational aspects of the calculation
 of the leading divergence of a
 particle-particle ladder 19
- Slee, O. B. —
 Radio sources observed with the
 Culgoora Circular Array 143
- Smarr, L.—
See Anninos, P. 1027
- Smith, B. J. K., Witte, N. S., and
 Hines, K. C.—
 Systematics of the electroweak plasma at
 finite temperature. I 739
 Systematics of the electroweak plasma at
 finite temperature. II 775
- Smrz, P. K.—
 Geometrical models of elementary
 particles 1045
- Stevenson, A. J., Gray, M. B., Harb, C. C.,
 McClelland, D. E., and
 Bachor, H.-A.—
 Interferometers with internal and
 external phase modulation:
 Experimental and analytical
 comparison 971
- Stewart, I. M.—
 The distribution of electrons in a
 uniform electric field 89
- Sugai, H.—
See Nakamura, K. 461
- Suzuki, K.—
See Nakamura, K. 461
- Szajman, J.—
See Di Marzio, D. 79
- Tachibana, K., and Hayashi, Y.—
 Analysis of the Coulomb-solidification
 process in particle plasmas 469
- Tagashira, H.—
See Sakai, Y. 419
- Takebe, M.—
See Iinuma, K. 491
- Teubner, P. J. O.—
See Brunger, M. J. 71
- Tikhomirov, A.—
See Veitch, P. J. 999
- Tipton, P. L., for the CDF collaboration—
 Evidence for top quark production in $\bar{p}p$
 collisions at $\sqrt{s} = 1.8$ TeV 207
- Tobar, M. E., Blair, D. G., Ivanov, E. N.,
 van Kann, F., Linthorne, N. P.,
 Turner, P. J., and Heng, I. S.—
 The University of Western Australia's
 resonant-bar gravitational wave
 experiment 1007
- Turner, P. J.—
See Tobar, M. E. 1007
- Unnikrishnan, K.—
 Renormalised perturbation theory of
 resonant multiphoton ionisation 835
- Usov, V. V., and Melrose, D. B.—
 Pulsars with strong magnetic fields:
 Polar gaps, bound pair creation and
 nonthermal luminosities 571
- van Kann, F.—
See Tobar, M. E. 1007
- Veitch, P. J., Munch, J., Hamilton, M. W.,
 Ottaway, D., Greentree, A., and
 Tikhomirov, A.—
 High power lasers and novel optics for
 laser interferometric gravitational wave
 detectors 999
- Voros, J.—
 Physical consequences of the
 interpretation of the skew part of $g_{\mu\nu}$
 in Einstein's nonsymmetric unified
 field theory 45
- Wandelt, K.—
See Shen, Y. G. 713
- Wang, G.—
See Zhao, J. 731
- Wang, Y.-Z., and Liu, L.—
 Laser manipulation of atoms and atom
 optics 267
- White, R. D.—
See Robson, R. E. 335
- White, R. D., Robson, R. E., and
 Ness, K. F.—
 Anomalous anisotropic diffusion of
 electron swarms in a.c. electric
 fields 925
- Wilkins, S. W.—
See Gao, D. 103
- Witte, N. S.—
See Smith, B. J. K. 739, 775
- Woolsey, G.—
See Di Marzio, D. 79

Xie, R.-H., Xu, G.-O., and Liu, D.-H.—
 Study of squeezing properties in a
 two-level system 907

Xu, G.-O.—
 See Xie, R.-H. 907

Yagi, S., and Kuzumoto, M.—
 Silent discharges in ozonisers and CO₂
 lasers 411

Yao, J.—
 See Shen, Y. G. 713

Ye, T.—
 See Cram, L. 113

Yoon, M.—
 See Lee, T.-N. 321

Yousef, A. E. R.—
 See Hassan, M. A. 821

Zhao, J., Chen, X., and Wang, G.—
 Tight-binding calculation of size
 dependence of the ionisation potentials
 of mercury clusters 731

