

Author Index to Volume 47

- Alexander, N., Amos, K., and Berge, L.—
Mott–Schwinger effect in the elastic
scattering of neutrons from
 ^{209}Bi 681
- Amos, K.—
See Alexander, N. 681
- Anis, M. K.—
See Haque, N. U. 487
- Babuyaima Singh, M.—
See Ranjit Singh, N. 265
- Back, P. J., Bleaney, B., Bowden, G. J.,
and Stone, N. J.—
A nuclear orientation study of terbium
ethyl sulphate 475
- Berge, L.—
See Alexander, N. 681
- Bicknell, G. V.—
Extragalactic radio sources and the role
of relativistic jets 669
- Bleaney, N.—
See Back, P. J. 475
- Bowden, G. J.—
See Back, P. J. 475
- Brunger, M. J.—
See Samardzic, O. 703
- Chakrabarti, K.—
See Das, J. N. 751
- Chakraborty, S.—
See Paul, S. N. 59
- Chatterjee, T. N.—
See Das, T. K. 817
- Das, J. N.—
Partial wave expansion of three-particle
continuum states in hyperspherical
coordinates: Application to ionisation
problems 743
See Seal, S. 49
- Das, J. N., Dey, A., and Chakrabarti, K.—
Schwinger variational calculation for
ionisation of hydrogen atoms by
electrons 751
- Das, T. K., Chatterjee, T. N., and
Sen, A. K.—
Solar flare surges in relation to active
prominences and sunspots 817
- Dawe, R. L., and Hines, K. C.—
The physics of tachyons. III.
Tachyon electromagnetism 431
- Deb, N. C.—
See Ranjit Singh, N. 265
- Delbourgo, R., and Waites, A. B.—
Induced parity violation in odd
dimensions 465
- Deshmukh, P. C.—
See Padma, R. 271
- Dey, A.—
See Das, J. N. 751
- Dinn, M. J.—
Parkes and NASA 501
- Duff, K. J.—
Envelope function theory for direct-gap
semiconductor superlattices of
arbitrary grading profile 77
- Ekers, R. D.—
John Bolton's variable-baseline
interferometer and the structure of
radio galaxies 569
- Elford, M. T., Sasaki, S., and Ness, K. F.—
Drift velocity and D_T/μ ratio for
electrons in a 0.5% hydrogen–xenon
mixture at 295 K 253
- Fisher, P.—
See Lewis, R. A. 329
- Gascoigne, S. C. B.—
John Bolton and the Anglo-Australian
Telescope 504
- Goddard, D. E.—
Introduction to John Bolton issue 495
- Green, H. S.—
A cyclic symmetry principle in
physics 25
Statistical symmetries in physics 109
- Greenstein, J. L.—
The early years of radio astronomy at
Caltech 555
- Haque, N. U., Hashmi, R. A., and
Anis, M. K.—
Influence of metal–glass contact on the
dynamic response of 0.40 Ag₂O:0.60
P₂O₅ 487
- Harris, D. E.—
Cygnus A—John Bolton's first cosmic
source 615
- Hashmi, R. A.—
See Haque, N. U. 487
- Haynes, R. F.—
See Goddard, D. E. 495
- Hines, K. C.—
See Dawe, R. L. 431

- Ho, V. B., and Morgan, M. J.—
 An experiment to test the
 Aharonov-Bohm effect 245
- Hollenberg, L. C., and Tomlinson, M. J.—
 Staggered magnetism in the Heisenberg
 antiferromagnet 137
- Hunstead, R. W.—
 Accurate optical positions for radio
 source identifications 657
- Hurn, J.-A.—
See Samardzic, O. 703
- Jameson, I., Rawlinson, A. A., and
 Thomas, A. W.—
 The sigma term: Leading non-analytic
 behaviour of decuplet
 contributions 45
- Kannan, R.—
See Mohan, S. 103
- Kansal, M. K., and Trikha, S. K.—
 The three phases of solid deuterated
 methane 97
- Kellermann, K. I.—
 Compact radio sources, quasars and
 active galactic nuclei 599
- Konovalov, D. A., and McCarthy, I. E.—
 Calculation of electron impact ionisation
 of atomic hydrogen with the exact
 final-state boundary conditions 123
- Lewis, R. A., Fisher, P., and
 McLean, N. A.—
 Spectroscopic and piezospectroscopic
 studies of the energy states of boron in
 silicon 329
- McCarthy, I. E.—
See Konovalov, D. A. 123
- MacGillivray, W. R., and
 Standage, M. C.—
 Studies involving the resonant interaction
 of laser light with atoms 1
- McLean, N. A.—
See Lewis, R. A. 329
- Makabe, T.—
See Robson, R. E. 305
- Manchester, R. N.—
 How I got a job in astronomy 499
- Mazumdar, P. S.—
See Ranjit Singh, N. 265
- Melrose, D. B.—
See Wheatland, M. S. 361
- Milne, D. K.—
 John Bolton and the rainmakers 549
- Mitroy, J., and Ratnavelu, K.—
 Close coupling theory of positron
 scattering from alkali atoms 721
- Mohan, S., and Kannan, R.—
 Lattice dynamics of the high T_c
 superconductor $\text{ErBa}_2\text{Cu}_3\text{O}_7$ 103
- Morgan, M. J.—
See Ho, V. B. 245
- Mukherjee, J., and Roy Chowdhury, A.—
 Solitary magnetosonic waves in a
 relativistic plasma 757
 Self-focussing of nonlinear waves in a
 relativistic plasma with positive and
 negative ions 773
- Ness, K. F.—
See Elford, M. T. 253
- Orchiston, W.—
 John Bolton, discrete sources, and the
 New Zealand field-trip of 1948 541
- Padma, R., and Deshmukh, P. C.—
 Near-threshold behaviour of generalised
 oscillator strengths for 2p
 ionisation 271
- Paul, S. N., Chakraborty, S., and
 Roy Chowdhury, A.—
 Effect of streaming electrons on the
 propagation of electromagnetic waves
 in a magnetised relativistic
 plasma 59
See Roy Chowdhury, K. 785
- Petržilka, V.—
 Variations of helicon wave-induced radial
 plasma transport in different
 experimental conditions 315
- Popel, S. I.—
See Vladimirov, S. V. 375
- Price, M.—
 John Bolton—On doing and being 498
- Ranjit Singh, N., Deb, N. C., Subodh
 Chandra Singh, Th., Babuyaima
 Singh, M., and Mazumdar, P. S.—
 Positronium formation cross sections for
 scattering of positrons from potassium
 and rubidium 265
- Ratnavelu, K.—
See Mitroy, J. 721
- Rawlinson, A. A.—
See Jameson, I. 45
- Roberts, J. A.—
 Some memories of John Bolton from
 Caltech and early years at
 Parkes 561

- Robson, R. E.—
Approximate formulas for ion and electron transport coefficients in crossed electric and magnetic fields 279
- Robson, R. E., and Makabe, T.—
Transport coefficients and velocity distribution function of an ion swarm in an a.c. electric field obtained from the BGK kinetic equation 305
- Roy, A. L.—
See Slee, O. B. 145
- Roy Chowdhury, A.—
See Mukherjee, J. 757, 773
Paul, S. N. 59
Roy Chowdhury, K. 785
- Roy Chowdhury, K., Paul, S. N., and Roy Chowdhury, A.—
Effect of electron inertia on double layers in a relativistic hot plasma 785
- Samardzic, O., Hurn, J.-A., Weigold, E., and Brunger, M. J.—
Electron impact excitation–autoionisation of the $(2s^2)^1S$, $(2p^2)^1D$ and $(2s2p)^1P$ autoionising states of helium 703
- Sarma, S. B. S. S.—
Estimation of magnetic field strength from enhanced solar radio emission 811
- Sasaki, S.—
See Elford, M. T. 253
- Saunders, G. A.—
See Senin, H. B. 795
- Savage, A.—
Wild, Woolley and Savage—or how John Bolton and I went hunting for quasars and QSOs 589
See Slee, O. B. 145
- Seal, S., and Das, J. N.—
Multiple scattering calculation for ionisation of helium atoms by electrons at intermediate energies 49
- Sen, A. K.—
See Das, T. K. 817
- Senin, H. B., Sidek, H. A., and Saunders, G. A.—
Elastic behaviour of terbium metaphosphate glasses under high pressures 795
- Sidek, H. A.—
See Senin, H. B. 795
- Slee, O. B.—
Some memories of the Dover Heights field station, 1946–1954 517
- Slee, O. B., Roy, A. L., and Savage, A.—
VLA survey of rich clusters of galaxies. II. The stronger sources: Maps, polarisations and identifications 145
- Standage, M. C.—
See MacGillivray, W. R. 1
- Stanley, G. J.—
Recollections of John G. Bolton at Dove Heights and Caltech 507
- Stewart, A. M.—
Inequalities for isothermal linear response 129
- Stone, N. J.—
See Back, P. J. 475
- Subodh Chandra Singh, Th.—
See Ranjit Singh, N. 265
- Thomas, A. W.—
See Jameson, I. 45
- Tingay, S. J.—
Centaurus A, the core of the problem 619
- Tomlinson, M. J.—
See Hollenberg, L. C. 137
- Trikha, S. K.—
See Kansal, M. K. 97
- Vladimirov, S. V., and Popel, S. I.—
Modulational interactions of two monochromatic waves and packets of random waves 375
- Waites, A. B.—
See Delbourgo, R. 465
- Wall, J. V.—
Populations of extragalactic radio sources 625
- Weigold, E.—
See Samardzic, O. 703
- Westfold, K. C.—
John Bolton—some early memories 535
- Wheatland, M. S., and Melrose, D. B.—
Cross-field current closure below the solar photosphere 361
- Whiteoak, J. B.—
John Bolton as a pioneer of OH spectroscopy 577
- Wild, J. P.—
Eulogy 496
Some reminiscences of John Bolton 497
- Wright, A. E.—
From the Parkes Catalogue to COMRAD 585

