

Index to Volume 40

- Afzal, S. A.—
 See Ahsan, M. H. 39
- Ahmad, A. A. Z.—
 See Ahsan, M. H. 39
- Ahsan, M. H., Ahmad, A. A. Z., and
 Afzal, S. A.—
 An analysis of the $^{12}\text{C}(^{16}\text{O}, \alpha)^{24}\text{Mg}$ reaction
 39
- Allakhverdiyev, A. O., Guseinov, O. H., and
 Yusifov, I. M.—
 Spatial distribution of pulsars and supernova
 remnants 837
- Alurkar, S. K.—
 See Slee, O. B. 557
- Anderson, B. D.—
 See Foot, P. B. 611
- Andrikidis, C.—
 See Collins, J. G. 65
- Baldwin, A. R.—
 See Foot, P. B. 611
- Barker, F. C.—
 The $^{12}\text{C}(\alpha, \gamma)^{16}\text{O}$ cross section at stellar
 energies 25
 The first excited state of ^9B 307
- Beesham, A.—
 A note on Lau's generalised theory of
 gravitation 23
- Bobra, A. D.—
 See Slee, O. B. 557
- Bolotin, H. H.—
 See Lampard, G. J. 117
- Brown, J. D.—
 See Foot, P. B. 611
- Bruck, Yu. M.—
 Decametric emission by pulsars 861
- Burman, R. R.—
 Electron outflow in axisymmetric pulsar
 magnetospheres 687
- Bursill, L. A., Goodman, P.,
 Patterson, J. D., and Tonner, S.—
 An electron microscope study of defect-free
 $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ ($x \approx 0.15$) with
 superconductivity at 93 K 635
- Butcher, E. C.—
 See Williams, D. G. 47
- Byrne, A. P.—
 See Lampard, G. J. 117
- Cahill, R. T.—
 See Roberts, C. D. 499
- Campbell, W. H., and Schiffmacher, E. R.—
 Quiet ionospheric currents and Earth
 conductivity profile computed from quiet-
 time geomagnetic field changes in the region
 of Australia 73
- Caswell, J. L.—
 See Kesteren, M. J. 855
 Milne, D. K. 709
- Caswell, J. L., and Haynes, R. F.—
 Survey of OH masers at 1665 MHz. III.
 Galactic longitudes 233° to 326° 215
- Chakraborty, B.—
 See Sur, A. K. 665
- Chakraborty, B., Sur, A. K., and Paul, S. N.—
 Nonlinear instability of ion-cyclotron whistlers
 in the ionosphere 675
- Cheek, D. B.—
 See Hay, H. J. 207
- Choudhury, S. R., Joshi, G. C.,
 McKellar, B. H. J., and Vogt, E. W.—
 The possibility of meson-lepton and dilepton
 resonances 283
- Christos, G. A.—
 Abnormal parity solutions of the
 Wess-Zumino consistency conditions for
 chiral $\text{SU}(L) \times \text{SU}(L)$ symmetry 299
- Chugaj, N. N.—
 See Lozinskaya, T. A. 767
- Clay, R. W.—
 Cosmic ray anisotropy above 10^{15} eV 423
- Collins, J. G., Collocott, S. J., Tainsh, R. J.,
 Andrikidis, C., and White, G. K.—
 Low temperature heat capacity and thermal
 expansion of KCL containing a low
 concentration of Li^+ 65
- Collins, R. E.—
 See Pailthorpe, B. A. 643
- Collocott, S. J.—
 See Collins, J. G. 65
- Cook, J. L.—
 See Donnelly, I. J. 175, 393
- Crawford, D. F.—
 Diffuse background X rays and the density of
 the intergalactic medium 459
 Photons in curved space-time 449
- Crompton, R. W.—
 See Morrison, M. A. 239
 Petrović, Z. Lj. 347

- Donnelly, I. J., Rose, E. K., and Cook, J. L.—
Magnetohydrodynamic equilibrium models
for rotamak plasmas 175
Power balance models for rotamak
plasmas 393
- Dopita, M. A.—
Models for the emission line spectra of oxygen-
rich supernova remnants 789
- Doran, C. E.—
See Lampard, G. J. 117
- Durance, G.—
See Jones, I. R. 157
- Elford, M. J.—
See England, J. P. 355
- Ellis, G. R. A., and Mendillo, M.—
A 1.6 MHz survey of the galactic background
radio emission 705
- England, J. P., and Elford, M. T.—
The mobility of Li^+ ions in helium at 294 K and
high E/N values 355
- Flanders, B. S.—
See Foot, P. B. 611
- Fletcher, J., and Purdie, P. H.—
Spatial non-uniformity in discharges in low
pressure helium and neon 383
- Foot, P. B., Shute, G. G., Spicer, B. M., Foster,
C. C., Brown, J. D., Friesel, D. L., Nann,
H., Seubert, J. W., Stephenson, E. J.,
Anderson, B. D., Baldwin, A. R.,
Flanders, B. S., Madey, R., Pairsuwan, W.,
and Watson, J. W.—
D state effects in the $^{11}\text{B}(\vec{d}, n)^{12}\text{C}$ reaction at
79 MeV 611
- Foster, C. C.—
See Foot, P. B. 611
- Friesel, D. L.—
See Foot, P. B. 611
- Glushak, A. P., Kovalenko, A. V.,
Kutuzov, S. M., Pynsar', A. V., and
Udal'tsov, V. A.—
Old supernova remnants: Structure and source
of radio emission 713
- Goodman, P.—
See Bursill, L. A. 635
- Gurvits, L. I., Kuzmin, O. A., Popov, M. V.,
and Smirnova, T. V.—
Correlation properties of a short scale
microstructure of pulsar radio emission
within a 100 kHz bandwidth 847
- Guseinov, O. H.—
See Allakverdiyev, A. O. 837
- Guseinov, O. H., and Yusifov, I. M.—
Problem of the estimate of distances to
pulsars 831
- Hamilton, P. A.—
See McCulloch, P. M. 725
- Hay, H. J., and Cheek, D. B.—
Proton induced X-ray emission for
measurement of bromine in micro quantities
of human blood plasma 207
- Hay, H. J., and Treacy, P. B.—
Excitation of swift heavy ions in foil targets.
III. Initial populations of Rydberg
states 125
- Haydon, S. C.—
See Sato, N. 527
- Haynes, R. F.—
Cir X-1 revisited: 843 MHz observations of
Cir X-1 and G321.9-0.3 741
See Caswell, J. L. 215
Kesteven, M. J. 855
Milne, D. K. 709
- Hogg, G. R.—
See Jones, I. R. 157
- Ivanov, V. P., and Stankevich, K. S.—
Nonstationary phenomena in the radiation of
young supernova remnants 801
- Jones, I. R., Turley, M. D. E., Wedding, J. E.,
Durance, G., Hogg, G. R., and Tendys, J.—
An experimental investigation of low power,
long duration rotamak discharges 157
- Joshi, G. C.—
See Choudhury, S. R. 283
- Kashyapi, P. K.—
See Sur, A. K. 665
- Kazbegi, A. Z., Machabeli, G. Z., and
Melikidze, G. I.—
Radio emission model of a 'typical'
pulsar 755
- Kesteven, M. J.—
Interferometers, aberration and the Sagnac
effect 435
Supernova remnant morphology: Are the
remnants barrel-shaped? 815
See Milne, D. K. 709
- Kesteven, M. J., Caswell, J. L., Roger, R. S.,
Milne, D. K., Haynes, R. F., and
Wellington, K. J.—
Supernova remnants with jets 855

- King, J. D.—
 See Tingwell, C. I. W. 319
- Klekociuk, A. R.—
 See McCulloch, P. M. 725
- Kondo, K.—
 Evolution equation and transport coefficients
 of swarms in initial relaxation
 processes 367
- Koppar, S. S.—
 See Patel, L. K. 441
- Koura, K.—
 Monte Carlo simulation of an electron swarm
 in an argon-like gas 61
- Kovalenko, A. V.—
 See Glushak, A. P. 713
- Kukielka, J.—
 See Murawski, K. 659
- Kutuzov, S. M.—
 See Glushak, A. P. 713
- Kuzmin, O. A.—
 See Gurvits, L. I. 847
- Lampard, G. J., Bolotin, H. H., Stuchbery,
 A. E., Doran, C. E., and Byrne, A. P.—
 Systematics of gyromagnetic ratios of the 2^+_1
 states in even Ge isotopes 117
- Lee, A. R.—
 See Williams, D. G. 47
- Louw, J. A.—
 See Steeb, W.-H. 587
- Lozinskaya, T. A., and Chugaj, N. N.—
 Relationship between supernova type and
 their remnants 767
- McCulloch, P. M., Klekociuk, A. R., Hamilton,
 P. A., and Royle, G. W. R.—
 Daily observations of three period jumps of the
 Vela pulsar 725
- Machabeli, G. Z.—
 See Kazbegi, A. Z. 755
- McKellar, B. H. J.—
 See Choudhury, S. R. 283
- Madey, R.—
 See Foot, P. B. 611
- Mahanty, J., and Michalewicz, M. T.—
 Interaction potential of a charged particle in
 a plane-sphere geometry 413
- Mair, S. L.—
 Correlations in space and time for a soft-mode
 phase-transforming system 619
- Malov, I. F.—
 Two types of pulsar 731
- Manchester, R. N.—
 Bi-annular structure in supernova
 remnants 823
- Melikidze, G. I.—
 See Kazbegi, A. Z. 755
- Melrose, D. B.—
 The cubic response tensor for a magnetised
 plasma: A covariant forward scattering
 approach 139
 See Storey, M. C. 89
- Mendillo, M.—
 See Ellis, G. R. A. 705
- Michalewicz, M. T.—
 See Mahanty, J. 413
- Miller, I. J.—
 The quantisation of the screening
 constant 329
- Milne, D. K.—
 An atlas of supernova remnant magnetic
 fields 771
 See Kesteven, M. J. 855
- Milne, D. K., Caswell, J. L., Haynes, R. F.,
 Kesteven, M. J., Wellington, K. J., and
 Roger, R. S.—
 Synthesis surveys of southern supernova
 remnants 709
- Moodie, A. F., and Whitfield, H. J.—
 Microstructure of high temperature
 superconductors of the perovskite
 type 547
- Morrison, M. A., Crompton, R. W., Saha, B. C.,
 and Petrović, Z. Lj.—
 Near-threshold rotational and vibrational
 excitation of H_2 by electron impact: Theory
 and experiment 239
- Morrison, M. A., and Parker, G. A.—
 A guide to rotations in quantum
 mechanics 465
- Murawski, K.—
 Stability of modified Korteweg-de Vries
 waves 593
- Murawski, K., and Kukielka, J.—
 Determination of Young's modulus in the
 circumferential direction of corn
 stalks 659
- Nann, H.—
 See Foot, P. B. 611
- O'Shea, S.—
 See Pailthorpe, B. A. 643
- Pailthorpe, B. A., Collins, R. E., and
 O'Shea, S.—
 Temperature limitation in evacuated solar
 collector tubes 643

- Pairsuwan, W.—
 See Foot, P. B. 611
- Pang, G. D., Xiong, S. J., and Tsai, C. H.—
 Effect of randomness in layer thickness on the
 phonon structure of superlattices 185
- Parker, G. A.—
 See Morrison, M. A. 465
- Parle, A. J.—
 Quantum electrodynamics in strong magnetic
 fields. IV. Electron self energy 1
- Patel, L. K., and Koppar, S. S.—
 A charged analogue of the Vaidya-Tikekar
 solution 441
- Patterson, J. D.—
 See Bursill, L. A. 635
- Paul, S. N.—
 See Chakraborty, B. 675
 Sur, A. K. 665
- Petrović, Z. Lj.—
 See Morrison, M. A. 239
- Petrović, Z. Lj., and Crompton, R. W.—
 A swarm experiment in He-H₂ mixtures to
 examine vibrational excitation of H₂ by
 electron impact 347
- Popov, M. V.—
 See Gurvits, L. I. 847
- Purdie, P. H.—
 See Fletcher, J. 383
- Pynsar', A. V.—
 See Glushak, A. P. 713
- Roberts, C. D., and Cahill, R. T.—
 A bosonisation of QCD and realisations of
 chiral symmetry 499
- Roger, R. S.—
 See Kesteven, M. J. 855
 Milne, D. K. 709
- Rose, E. K.—
 See Donnelly, I. J. 175, 393
- Royle, G. W. R.—
 See McCulloch, P. M. 725
- Saha, B. C.—
 See Morrison, M. A. 239
- Sargood, D. G.—
 See Tingwell, C. I. W. 319
- Sato, N., and Haydon, S. C.—
 Observation and analysis of nanosecond time-
 resolved r.f. corona in air and comparison
 with N₂ 527
- Schiffmacher, E. R.—
 See Campbell, W. H. 73
- Seubert, J. W.—
 See Foot, P. B. 611
- Shi, H., and Tsai, C.-H.—
 Polariton modes in superlattices of uniaxial
 crystals 193
- Shute, G. G.—
 See Foot, P. B. 611
- Signal, A. I., and Thomas, A. W.—
 Anti-neutrino cross sections for neon and
 deuterium 601
- Slee, O. B., Bobra, A. D., and Alurkar, S. K.—
 Spectral behaviour of pulse width in
 pulsars 559
- Smirnova, T. V.—
 See Gurvits, L. I. 847
- Spicer, B. M.—
 See Foot, P. B. 611
- Standish, R. K.—
 Non-hydrodynamic contributions to the end
 effects in time of flight swarm
 experiments 519
- Stankevich, K. S.—
 See Ivanov, V. P. 801
- Steeb, W.-H., Louw, J. A., and Villet, C. M.—
 Linearly coupled anharmonic oscillators and
 integrability 587
- Stephenson, E. J.—
 See Foot, P. B. 611
- Storey, M. C., and Melrose, D. B.—
 Collisions in strong magnetic fields 89
- Stuchbery, A. E.—
 See Lampard, G. J. 117
- Sur, A. K.—
 See Chakraborty, B. 675
- Sur, A. K., Kashyapi, P. K., Paul, S. N., and
 Chakraborty, B.—
 Nonlinear shift of wave parameters of whistlers
 in the ionosphere in the presence of negative
 ions 665
- Tainsh, R. J.—
 See Collins, J. G. 65
- Tassie, L. J.—
 Formation of the Universe from rotating
 superstrings 109
- Tendys, J.—
 See Jones, I. R. 157
- Thomas, A. W.—
 See Signal, A. I. 601
- Tingwell, C. I. W., King, J. D., and
 Sargood, D. G.—
 Angular distributions for ⁶Li(p, γ)⁷Be 319
- Tonner, S.—
 See Bursill, L. A. 635
- Treacy, P. B.—
 See Hay, H. J. 125

- Tsai, C. H.—
 See Pang, G. D. 185
 Shi, H. 193
- Turley, M. D. E.—
 See Jones, I. R. 157
- Udal'tsov, V. A.—
 See Glushak, A. P. 713
- Villet, C. M.—
 See Steeb, W.-H. 587
- Vogt, E. W.—
 See Choudhury, S. R. 283
- Watson, J. W.—
 See Foot, P. B. 611
- Wedding, J. E.—
 See Jones, I. R. 157
- Wellington, K. J.—
 See Kesteven, M. J. 855
 Milne, D. K. 709
- White, G. K.—
 See Collins, J. G. 65
- Whitfield, H. J.—
 See Moodie, A. F. 547
- Williams, D. G., Lee, A. R., and
 Butcher, E. C.—
 A photodetector for measurement of
 metastable H(2S) in ion-atom
 collisions 47
- Xiong, S. J.—
 See Pang, G. D. 185
- Yusifov, I. M.—
 See Allahverdiyev, A. O. 837
 Guseinov, O. H. 831

