

AUTHOR INDEX

- Abel, T.** Three-Dimensional Radiative Transfer.
T. Abel. 300
- Allen, C.** The Spiral Density Wave in a Thick Galactic Disk. *M. Martos, C. Allen, J. Franco, & S. E. Kurtz.* 344
- Aretxaga, I.** The Hyper-Energetic SN 1988Z.
I. Aretxaga. 286
- Arthur, S. J.** On the Bowshocks Associated with the Orion Proplyds. *F. García-Arredondo, S. J. Arthur, & W. J. Henney.* 223
- Arthur, S. J.** Preface. *J. Franco, S. J. Arthur, & N. Brickhouse.* ix
- Avila-Reese, V.** Turbulent Dissipation in the Interstellar Medium: Implications for Galaxy Formation and Evolution. *V. Avila-Reese & E. Vázquez-Semadeni.* 63
- Bally, J.** Outflows, Jets and Shocks in the Orion Nebula. *C. R. O'Dell & J. Bally.* 194
- Balogh, A.** Azimuthal Field Perturbations in the Jovian Magnetosphere: *Ulysses* Observations. *T. M. Edwards, A. Balogh, S. W. H. Cowley, M. K. Dougherty, M. W. Dunlop, R. J. Forsyth, N. F. Laxton, & K. Staines.* 108
- Balsara, D.** Numerical Simulation of Dynamos with Scale Separation. *D. Balsara.* 92
- Balsara, D.** The RIEMANN Framework and Higher Order Godunov Schemes for Parallel, Self-Adaptive Computational Astrophysics. *D. Balsara.* 72
- Beckman, J. E.** Density Bounded H II Regions: Ionization of the Diffuse Interstellar and Intergalactic Media. *A. Zurita, M. Rozas, & J. E. Beckman.* 290
- Beiersdorfer, P.** Cataloguing Emission Line Spectra from Fe VII–Fe XXIV in the Extreme Ultraviolet. *J. K. Lepson, P. Beiersdorfer, G. V. Brown, S. M. Kahn, D. A. Liedahl, C. W. Mauche, & S. B. Utter.* 137
- Beiersdorfer, P.** Emission Line Spectra from Low-Density Laboratory Plasmas (Invited Paper). *P. Beiersdorfer, G. V. Brown, J. J. Drake, M.-F. Gu, S. M. Kahn, J. K. Lepson, D. A. Liedahl, C. W. Mauche, D. W. Savin, S. B. Utter, & B. J. Wargelin.* 123
- Benjamin, R. A.** Vertical Shear of the Galactic Interstellar Medium. *R. A. Benjamin.* 256
- Binette, L.** Dust and the Temperature Structure of Orion. *D. I. González Gómez, L. Binette, & D. Mayya.* 225
- Binette, L.** Narrow-Line Seyfert 1 Galaxies: The [O III] $\lambda 5007/H\beta$ Ratio and Photoionization Models for the NLR. *A. Rodríguez-Ardila, L. Binette, M. G. Pastoriza, & C. J. Donzelli.* 319
- Blanco-Cano, X.** Waves Observed by the *Galileo* Spacecraft in the Io Torus. *X. Blanco-Cano, C. T. Russell, R. J. Strangeway, D. E. Huddleston, M. G. Kivelson, & K. K. Khurana.* 343
- Bodo, G.** Understanding NLR in Seyfert Galaxies: Numerical Simulation of Jet-Cloud Interaction. *A. Ferrari, S. Massaglia, P. Rossi, A. Capetti, & G. Bodo.* 329
- Bohigas, J.** An Old Bipolar Shell Associated with η Carinae. *J. Bohigas, M. Tapia, M. T. Ruiz, & M. Roth.* 343
- Borkowski, K. J.** Nonequilibrium Ionization Models for Analysis of X-Ray Spectra of Supernova Remnants. *K. J. Borkowski.* 288
- Brickhouse, N.** Preface. *J. Franco, S. J. Arthur, & N. Brickhouse.* ix
- Brickhouse, N. S.** Coronal Physics and the Chandra Emission Line Project (Invited Paper). *N. S. Brickhouse & J. J. Drake.* 24
- Brickhouse, N. S.** Error Estimates for Emission Lines in the Hydrogen and Helium Isosequences. *R. K. Smith & N. S. Brickhouse.* 134
- Brinks, E.** X-Ray Observations of Superbubbles in Dwarf Galaxies. *E. Brinks, F. Walter, & J. Kerp.* 279
- Brown, G. V.** Cataloguing Emission Line Spectra from Fe VII–Fe XXIV in the Extreme Ultraviolet. *J. K. Lepson, P. Beiersdorfer, G. V. Brown, S. M. Kahn, D. A. Liedahl, C. W. Mauche, & S. B. Utter.* 137
- Brown, G. V.** Emission Line Spectra from Low-Density Laboratory Plasmas (Invited Paper). *P. Beiersdorfer, G. V. Brown, J. J. Drake, M.-F. Gu, S. M. Kahn, J. K. Lepson, D. A. Liedahl, C. W. Mauche, D. W. Savin, S. B. Utter, & B. J. Wargelin.* 123

- Bryant, H. C.** Search for the Shape Resonance in the Negative Ion of Hydrogen in Astrophysical Plasmas. *S. Cohen & H. C. Bryant.* 148
- Burlak, G. N.** Condensation Production in Comet Tail Plasma. *S. V. Koshevaya, M. Tecpoyotl-T., E. A. Gutiérrez-D., G. N. Burlak, & A. N. Kot-sarenko.* 112
- Capetti, A.** Understanding NLR in Seyfert Galaxies: Numerical Simulation of Jet-Cloud Interaction. *A. Ferrari, S. Massaglia, P. Rossi, A. Capetti, & G. Bodo.* 329
- Caplan, J.** Oxygen and Helium Abundances in Galactic H II Regions: Abundance Gradients. *M. Peña, L. Deharveng, J. Caplan, & R. Costero.* 184
- Castañeda, H. O.** Internal Variations of Electron Density in Galactic H II Regions. *M. V. F. Copetti, H. O. Castañeda, J. A. H. Mallmann, & A. A. Schmidt.* 343
- Cerqueira, A. H.** 3D SPH Simulations of Giant Herbig-Haro Flows and Jet-Cloud Interactions in Star Formation Regions. *E. M. de Gouveia Dal Pino & A. H. Cerqueira.* 86
- Cerviño, M.** X-ray Emission from Star Forming Galaxies. *M. Cerviño.* 283
- Chou, W.** Plasma Simulator for Rotating Astrophysical Objects. *K. E. Nakamura, R. Matsumoto, M. Machida, & W. Chou.* 99
- Chu, Y.-H.** Hot Gas in the Large Magellanic Cloud (Invited Paper). *Y.-H. Chu.* 262
- Cohen, S.** Search for the Shape Resonance in the Negative Ion of Hydrogen in Astrophysical Plasmas. *S. Cohen & H. C. Bryant.* 148
- Copetti, M. V. F.** Internal Variations of Electron Density in Galactic H II Regions. *M. V. F. Copetti, H. O. Castañeda, J. A. H. Mallmann, & A. A. Schmidt.* 343
- Corradi, R. L. M.** Jets and Jet-Like Structures of Low-Ionization in Planetary Nebulae. *D. R. Gonçalves, R. L. M. Corradi, E. Villaver, A. Mampaso, & M. Perinotto.* 216
- Costero, R.** Oxygen and Helium Abundances in Galactic H II Regions: Abundance Gradients. *M. Peña, L. Deharveng, J. Caplan, & R. Costero.* 184
- Cowley, S. W. H.** Azimuthal Field Perturbations in the Jovian Magnetosphere: *Ulysses* Observations. *T. M. Edwards, A. Balogh, S. W. H. Cowley, M. K. Dougherty, M. W. Dunlop, R. J. Forsyth, N. F. Laxton, & K. Staines.* 108
- Cox, D. P.** Hot Gas and the Gaseous Structure of the Galaxy (Invited Paper). *D. P. Cox.* 14
- Cox, D. P.** Conference Summary. *D. P. Cox.* 337
- de Diego, J. A.** Electric Discharges onto a Black Hole and X-Ray Transient Periodic Variability in AGN. *J. A. de Diego, D. Dultzin-Hacyan, D. Núñez, & R. Pérez.* 326
- de Gouveia Dal Pino, E. M.** 3D SPH Simulations of Giant Herbig-Haro Flows and Jet-Cloud Interactions in Star Formation Regions. *E. M. de Gouveia Dal Pino & A. H. Cerqueira.* 86
- de Gouveia Dal Pino, E. M.** Ultra-High-Energy Cosmic Ray Acceleration by Magnetic Reconnection in Newborn Pulsars. *E. M. de Gouveia Dal Pino & A. Lazarian.* 97
- de la Fuente, E.** The Effects of Dust and Density Distributions in UC H II Regions. *J. Franco, S. E. Kurtz, P. Hofner, J. A. García-Barreto, G. García-Segura, E. de la Fuente, & A. Esquivel.* 177
- Deharveng, L.** Oxygen and Helium Abundances in Galactic H II Regions: Abundance Gradients. *M. Peña, L. Deharveng, J. Caplan, & R. Costero.* 184
- Dennefeld, M.** Planetary Nebulae in the Magellanic Clouds. *P. Leisy & M. Dennefeld.* 227
- Donzelli, C. J.** Narrow-Line Seyfert 1 Galaxies: The [O III] $\lambda 5007/H\beta$ Ratio and Photoionization Models for the NLR. *A. Rodríguez-Ardila, L. Binette, M. G. Pastoriza, & C. J. Donzelli.* 319
- Dopita, M. A.** Photoionization and Shock Modelling of the H II Region Abundance Sequence and of Luminous Infrared Galaxies. *L. J. Kewley, M. A. Dopita, C. A. Heisler, R. S. Sutherland, B. Rocca-Volmerange, & E. Moy.* 163
- Dougherty, M. K.** Azimuthal Field Perturbations in the Jovian Magnetosphere: *Ulysses* Observations. *T. M. Edwards, A. Balogh, S. W. H. Cowley, M. K. Dougherty, M. W. Dunlop, R. J. Forsyth, N. F. Laxton, & K. Staines.* 108
- Drake, J. J.** Coronal Physics and the Chandra Emission Line Project (Invited Paper). *N. S. Brickhouse & J. J. Drake.* 24
- Drake, J. J.** Emission Line Spectra from Low-Density Laboratory Plasmas (Invited Paper). *P. Beiersdorfer, G. V. Brown, J. J. Drake, M.-F. Gu, S. M. Kahn, J. K. Lepson,*

- D. A. Liedahl, C. W. Mauche, D. W. Savin, S. B. Utter, & B. J. Wargelin.* 123
- Dubau, J.** X-Ray Plasma Diagnostics for Totally and Partially Photoionized Plasmas such as Warm Absorbers in AGN. *D. Porquet & J. Dubau.* 316
- Dudziak, G.** Third-Dredge-Up Oxygen in Planetary Nebulae?. *D. Pequignot, A. A. Zijlstra, J. Walsh, & G. Dudziak.* 220
- Dultzin-Hacyan, D.** Electric Discharges onto a Black Hole and X-Ray Transient Periodic Variability in AGN. *J. A. de Diego, D. Dultzin-Hacyan, D. Núñez, & R. Pérez.* 326
- Dultzin-Hacyan, D.** The Broad Line Region in Active Galactic Nuclei (Invited Paper). *D. Dultzin-Hacyan, P. Marziani, & J. W. Sulentic.* 308
- Dunlop, M. W.** Azimuthal Field Perturbations in the Jovian Magnetosphere: *Ulysses* Observations. *T. M. Edwards, A. Balogh, S. W. H. Cowley, M. K. Dougherty, M. W. Dunlop, R. J. Forsyth, N. F. Laxton, & K. Staines.* 108
- Edwards, T. M.** Azimuthal Field Perturbations in the Jovian Magnetosphere: *Ulysses* Observations. *T. M. Edwards, A. Balogh, S. W. H. Cowley, M. K. Dougherty, M. W. Dunlop, R. J. Forsyth, N. F. Laxton, & K. Staines.* 108
- Esquivel, A.** The Effects of Dust and Density Distributions in UC H II Regions. *J. Franco, S. E. Kurtz, P. Hofner, J. A. García-Barreto, G. García-Segura, E. de la Fuente, & A. Esquivel.* 177
- Fabbiano, G.** Needs and Requirements for Future X-Ray Observations of Hot Galactic Halos (Invited Paper). *G. Fabbiano.* 6
- Fabian, A. C.** An Extended Multi-Zone Model for the MCG-6-30-15 Warm Absorber. *R. Morales, A. C. Fabian, & C. S. Reynolds.* 334
- Ferland, G. J.** Cloudy 94 and Applications to Quasar Emission Line Regions (Invited Paper). *G. J. Ferland.* 153
- Ferrari, A.** Understanding NLR in Seyfert Galaxies: Numerical Simulation of Jet-Cloud Interaction. *A. Ferrari, S. Massaglia, P. Rossi, A. Capetti, & G. Bodo.* 329
- Forsyth, R. J.** Azimuthal Field Perturbations in the Jovian Magnetosphere: *Ulysses* Observations. *T. M. Edwards, A. Balogh, S. W. H. Cowley, M. K. Dougherty, M. W. Dunlop, R. J. Forsyth, N. F. Laxton, & K. Staines.* 108
- Franco, J.** MHD Models for PNe. *G. García-Segura, J. Franco, J. A. López, N. Langer, & M. Różyczka.* 210
- Franco, J.** The Effects of Dust and Density Distributions in UC H II Regions. *J. Franco, S. E. Kurtz, P. Hofner, J. A. García-Barreto, G. García-Segura, E. de la Fuente, & A. Esquivel.* 177
- Franco, J.** The Spiral Density Wave in a Thick Galactic Disk. *M. Martos, C. Allen, J. Franco, & S. E. Kurtz.* 344
- Franco, J.** Preface. *J. Franco, S. J. Arthur, & N. Brickhouse.* ix
- Frank, A.** Magnetic Field Topology in Jets. *T. A. Gardiner & A. Frank.* 95
- Freyer, T.** Massive Stars and their Environment: Light and Shadows. *T. Freyer & G. Hensler.* 187
- García-Arredondo, F.** On the Bowshocks Associated with the Orion Proplyds. *F. García-Arredondo, S. J. Arthur, & W. J. Henney.* 223
- García-Barreto, J. A.** The Effects of Dust and Density Distributions in UC H II Regions. *J. Franco, S. E. Kurtz, P. Hofner, J. A. García-Barreto, G. García-Segura, E. de la Fuente, & A. Esquivel.* 177
- García-Segura, G.** MHD Models for PNe. *G. García-Segura, J. Franco, J. A. López, N. Langer, & M. Różyczka.* 210
- García-Segura, G.** The Effects of Dust and Density Distributions in UC H II Regions. *J. Franco, S. E. Kurtz, P. Hofner, J. A. García-Barreto, G. García-Segura, E. de la Fuente, & A. Esquivel.* 177
- García-Segura, G.** The Interaction of Multiple Shell Planetary Nebulae with the ISM. *E. Villaver, A. Manchado, & G. García-Segura.* 213
- Gardiner, T. A.** Magnetic Field Topology in Jets. *T. A. Gardiner & A. Frank.* 95
- Gazol, A.** On the Reduced MHD for Compressible Fluids. *A. Gazol, T. Passot, & P. L. Sulem.* 80
- Gervids, V. I.** Reduced Description of Light Impurities in Hydrogen Coronal Plasmas. *D. Kh. Morozov & V. I. Gervids.* 131
- Gonçalves, D. R.** Jets and Jet-Like Structures of Low-Ionization in Planetary Nebulae. *D. R. Gonçalves, R. L. M. Corradi, E. Villaver, A. Mampaso, & M. Perinotto.* 216
- González-Esparza, J. A.** Multi-Spacecraft In-Situ Observations of Interplanetary Transient Shocks. *J. A. González-Esparza & M. A. Yáñez.* 105

- González Gómez, D. I.** Dust and the Temperature Structure of Orion. *D. I. González Gómez, L. Binette, & D. Mayya.* 225
- Gruenwald, R.** A 3D Morpho-Kinematic Study of NGC 3132. *H. Monteiro, C. Morisset, R. Gruenwald, & S. M. Viegas.* 236
- Gu, M.-F.** Emission Line Spectra from Low-Density Laboratory Plasmas (Invited Paper). *P. Beiersdorfer, G. V. Brown, J. J. Drake, M.-F. Gu, S. M. Kahn, J. K. Lepson, D. A. Liedahl, C. W. Mauche, D. W. Savin, S. B. Utter, & B. J. Wargelin.* 123
- Gutiérrez-D., E. A.** Condensation Production in Comet Tail Plasma. *S. V. Koshvaya, M. Tecpoyotl-T., E. A. Gutiérrez-D., G. N. Burlak, & A. N. Kotsarenko.* 112
- Haffner, L. M.** Temperature Variations and Non-Photoionization Heating in the Warm Ionized Medium of Galaxies (Invited Paper). *R. J. Reynolds, L. M. Haffner, & S. L. Tufte.* 249
- Haffner, L. M.** The Wisconsin H α Mapper: A New Look at the Warm Ionized Medium (Invited Paper). *L. M. Haffner, R. J. Reynolds, & S. L. Tufte.* 238
- Heisler, C. A.** Photoionization and Shock Modelling of the H II Region Abundance Sequence and of Luminous Infrared Galaxies. *L. J. Kewley, M. A. Dopita, C. A. Heisler, R. S. Sutherland, B. Rocca-Volmerange, & E. Moy.* 163
- Henney, W. J.** Kinematics and Ionization of the Proplyd M42 177–341. *W. J. Henney.* 198
- Henney, W. J.** On the Bowshocks Associated with the Orion Proplyds. *F. García-Arredondo, S. J. Arthur, & W. J. Henney.* 223
- Hensler, G.** Massive Stars and their Environment: Light and Shadows. *T. Freyer & G. Hensler.* 187
- Hensler, G.** *ROSAT* X-Ray Observations of Central Galactic Starbursts. *D. Tschöke & G. Hensler.* 51
- Herrera-Velázquez, J.** On the Problem of Self-Organization in Magnetized Plasmas (Invited Paper). *J. Herrera-Velázquez.* 344
- Hofner, P.** The Effects of Dust and Density Distributions in UC H II Regions. *J. Franco, S. E. Kurtz, P. Hofner, J. A. García-Barreto, G. García-Segura, E. de la Fuente, & A. Esquivel.* 177
- Huddleston, D. E.** Waves Observed by the *Galileo* Spacecraft in the Io Torus. *X. Blanco-Cano, C. T. Russell, R. J. Strangeway, D. E. Huddleston, M. G. Kivelson, & K. K. Khurana.* 343
- Jatenco-Pereira, V.** Alfvénic Heating of Accretion Disks. *M. J. Vasconcelos, V. Jatenco-Pereira, & R. Opher.* 103
- Jatenco-Pereira, V.** MHD Waves in Stellar Winds and Accretion Disks. *M. J. Vasconcelos, V. Jatenco-Pereira, & R. Opher.* 83
- Jones, T. W.** Cosmic Rays and Their Radiative Processes in Numerical Cosmology. *D. Ryu, F. Miniati, T. W. Jones, & H. Kang.* 305
- Jones, T. W.** Three-Dimensional Simulations of the Parker Instability in a Uniformly-rotating Disk. *J. Kim, D. Ryu, & T. W. Jones.* 77
- Kahn, S. M.** Astrophysical X-Ray Spectroscopy with *XMM* and *ASTRO E* (Invited Paper). *S. M. Kahn.* 345
- Kahn, S. M.** Cataloguing Emission Line Spectra from Fe VII–Fe XXIV in the Extreme Ultraviolet. *J. K. Lepson, P. Beiersdorfer, G. V. Brown, S. M. Kahn, D. A. Liedahl, C. W. Mauche, & S. B. Utter.* 137
- Kahn, S. M.** Emission Line Spectra from Low-Density Laboratory Plasmas (Invited Paper). *P. Beiersdorfer, G. V. Brown, J. J. Drake, M.-F. Gu, S. M. Kahn, J. K. Lepson, D. A. Liedahl, C. W. Mauche, D. W. Savin, S. B. Utter, & B. J. Wargelin.* 123
- Kahn, S. M.** X-Ray Line Spectroscopy of Massive X-Ray Binaries (Invited Paper). *D. A. Liedahl, M. Sako, P. S. Wojdowski, F. Paerels, & S. M. Kahn.* 40
- Kang, H.** Cosmic Rays and Their Radiative Processes in Numerical Cosmology. *D. Ryu, F. Miniati, T. W. Jones, & H. Kang.* 305
- Kerp, J.** X-Ray Observations of Superbubbles in Dwarf Galaxies. *E. Brinks, F. Walter, & J. Kerp.* 279
- Kewley, L. J.** Photoionization and Shock Modelling of the H II Region Abundance Sequence and of Luminous Infrared Galaxies. *L. J. Kewley, M. A. Dopita, C. A. Heisler, R. S. Sutherland, B. Rocca-Volmerange, & E. Moy.* 163
- Khurana, K. K.** Waves Observed by the *Galileo* Spacecraft in the Io Torus. *X. Blanco-Cano, C. T. Russell, R. J. Strangeway, D. E. Huddleston, M. G. Kivelson, & K. K. Khurana.* 343
- Kim, J.** Three-Dimensional Simulations of the Parker Instability in a Uniformly-rotating Disk. *J. Kim, D. Ryu, & T. W. Jones.* 77
- Kivelson, M. G.** Waves Observed by the *Galileo* Spacecraft in the Io Torus. *X. Blanco-Cano, C. T. Russell, R. J. Strangeway, D. E. Huddleston, M. G. Kivelson, & K. K. Khurana.* 343

- Klapp, J.** Collapse and Fragmentation Models of Cloud Cores with Magnetic Field Support. *J. Klapp & L. Di G. Sigalotti.* 89
- Koshevaya, S. V.** Condensation Production in Comet Tail Plasma. *S. V. Koshevaya, M. Tecpoyotl-T., E. A. Gutiérrez-D., G. N. Burlak, & A. N. Kotsarenko.* 112
- Kotsarenko, A. N.** Condensation Production in Comet Tail Plasma. *S. V. Koshevaya, M. Tecpoyotl-T., E. A. Gutiérrez-D., G. N. Burlak, & A. N. Kotsarenko.* 112
- Kurtz, S. E.** The Effects of Dust and Density Distributions in UC H II Regions. *J. Franco, S. E. Kurtz, P. Hofner, J. A. García-Barreto, G. García-Segura, E. de la Fuente, & A. Esquivel.* 177
- Kurtz, S. E.** The Spiral Density Wave in a Thick Galactic Disk. *M. Martos, C. Allen, J. Franco, & S. E. Kurtz.* 344
- Kurtz, S. E.** Ultracompact H II Regions: New Challenges (Invited Paper). *S. E. Kurtz.* 169
- López, J. A.** Collimated Outflows in Planetary Nebulae (Invited Paper). *J. A. López.* 201
- López, J. A.** MHD Models for PNe. *G. García-Segura, J. Franco, J. A. López, N. Langer, & M. Różyczka.* 210
- López, J. A.** Observations of Jets in H II Regions (HH 444). *L. López-Martín, A. C. Raga, J. A. López, & J. Meaburn.* 230
- López, J. A.** The Theory of Photoionized Jets. *A. C. Raga, L. López-Martín, J. A. López, & J. Meaburn.* 191
- López-Martín, L.** Observations of Jets in H II Regions (HH 444). *L. López-Martín, A. C. Raga, J. A. López, & J. Meaburn.* 230
- López-Martín, L.** The Theory of Photoionized Jets. *A. C. Raga, L. López-Martín, J. A. López, & J. Meaburn.* 191
- Landi, E.** CHIANTI—An Atomic Database for EUV Emission Lines (Invited Paper). *E. Landi.* 140
- Langer, N.** MHD Models for PNe. *G. García-Segura, J. Franco, J. A. López, N. Langer, & M. Różyczka.* 210
- Laxton, N. F.** Azimuthal Field Perturbations in the Jovian Magnetosphere: *Ulysses* Observations. *T. M. Edwards, A. Balogh, S. W. H. Cowley, M. K. Dougherty, M. W. Dunlop, R. J. Forsyth, N. F. Laxton, & K. Staines.* 108
- Lazarian, A.** Ultra-High-Energy Cosmic Ray Acceleration by Magnetic Reconnection in New-born Pulsars. *E. M. de Gouveia Dal Pino & A. Lazarian.* 97
- Lazarian, A.** Fast Reconnection of Magnetic Fields in Turbulent Fluids (Invited Paper). *A. Lazarian & E. Vishniac.* 55
- Leisy, P.** Planetary Nebulae in the Magellanic Clouds. *P. Leisy & M. Dennefeld.* 227
- Leitherer, C.** Photoionization Models of NGC 2363. *V. Luridiana, M. Peimbert, & C. Leitherer.* 166
- Lepson, J. K.** Cataloguing Emission Line Spectra from Fe VII–Fe XXIV in the Extreme Ultraviolet. *J. K. Lepson, P. Beiersdorfer, G. V. Brown, S. M. Kahn, D. A. Liedahl, C. W. Mauche, & S. B. Utter.* 137
- Lepson, J. K.** Emission Line Spectra from Low-Density Laboratory Plasmas (Invited Paper). *P. Beiersdorfer, G. V. Brown, J. J. Drake, M.-F. Gu, S. M. Kahn, J. K. Lepson, D. A. Liedahl, C. W. Mauche, D. W. Savin, S. B. Utter, & B. J. Wargelin.* 123
- Liedahl, D. A.** Cataloguing Emission Line Spectra from Fe VII–Fe XXIV in the Extreme Ultraviolet. *J. K. Lepson, P. Beiersdorfer, G. V. Brown, S. M. Kahn, D. A. Liedahl, C. W. Mauche, & S. B. Utter.* 137
- Liedahl, D. A.** Emission Line Spectra from Low-Density Laboratory Plasmas (Invited Paper). *P. Beiersdorfer, G. V. Brown, J. J. Drake, M.-F. Gu, S. M. Kahn, J. K. Lepson, D. A. Liedahl, C. W. Mauche, D. W. Savin, S. B. Utter, & B. J. Wargelin.* 123
- Liedahl, D. A.** X-Ray Line Spectroscopy of Massive X-Ray Binaries (Invited Paper). *D. A. Liedahl, M. Sako, P. S. Wojdowski, F. Paerels, & S. M. Kahn.* 40
- Luridiana, V.** Photoionization Models of NGC 2363. *V. Luridiana, M. Peimbert, & C. Leitherer.* 166
- Mac Low, M.-M.** Is the Plasma Within Bubbles and Superbubbles Hot or Cold? (Invited Paper). *M.-M. Mac Low.* 273
- Machida, M.** Plasma Simulator for Rotating Astrophysical Objects. *K. E. Nakamura, R. Matsumoto, M. Machida, & W. Chou.* 99
- Mallmann, J. A. H.** Internal Variations of Electron Density in Galactic H II Regions. *M. V. F. Copetti, H. O. Castañeda, J. A. H. Mallmann, & A. A. Schmidt.* 343

- Mampaso, A.** Jets and Jet-Like Structures of Low-Ionization in Planetary Nebulae. *D. R. Gonçalves, R. L. M. Corradi, E. Villaver, A. Mampaso, & M. Perinotto.* 216
- Manchado, A.** The Interaction of Multiple Shell Planetary Nebulae with the ISM. *E. Villaver, A. Manchado, & G. García-Segura.* 213
- Martin, C. L.** Excitation of the Diffuse Ionized Gas in Galaxies. *C. L. Martin.* 270
- Martos, M.** The Spiral Density Wave in a Thick Galactic Disk. *M. Martos, C. Allen, J. Franco, & S. E. Kurtz.* 344
- Marziani, P.** The Broad Line Region in Active Galactic Nuclei (Invited Paper). *D. Dultzin-Hacyan, P. Marziani, & J. W. Sulentic.* 308
- Masai, K.** Thermal Structure and Radiation Spectra of Photoionized Gas in Accretion-Powered X-Ray Sources. *K. Masai & M. Nakayama.* 48
- Massaglia, S.** Understanding NLR in Seyfert Galaxies: Numerical Simulation of Jet-Cloud Interaction. *A. Ferrari, S. Massaglia, P. Rossi, A. Capetti, & G. Bodo.* 329
- Matsumoto, R.** Plasma Simulator for Rotating Astrophysical Objects. *K. E. Nakamura, R. Matsumoto, M. Machida, & W. Chou.* 99
- Mauche, C. W.** Cataloguing Emission Line Spectra from Fe VII–Fe XXIV in the Extreme Ultraviolet. *J. K. Lepson, P. Beiersdorfer, G. V. Brown, S. M. Kahn, D. A. Liedahl, C. W. Mauche, & S. B. Utter.* 137
- Mauche, C. W.** Emission Line Spectra from Low-Density Laboratory Plasmas (Invited Paper). *P. Beiersdorfer, G. V. Brown, J. J. Drake, M.-F. Gu, S. M. Kahn, J. K. Lepson, D. A. Liedahl, C. W. Mauche, D. W. Savin, S. B. Utter, & B. J. Wargelin.* 123
- Mauche, C. W.** The EUV Emission-Line Spectrum of OY Carinae in Superoutburst: Scattering in the Wind. *C. W. Mauche & J. C. Raymond.* 232
- Mayya, D.** Dust and the Temperature Structure of Orion. *D. I. González Gómez, L. Binette, & D. Mayya.* 225
- Meaburn, J.** Observations of Jets in H II Regions (HH 444). *L. López-Martín, A. C. Raga, J. A. López, & J. Meaburn.* 230
- Meaburn, J.** The Theory of Photoionized Jets. *A. C. Raga, L. López-Martín, J. A. López, & J. Meaburn.* 191
- Medina, S.** Physical Parameters and Chemical Composition in Abell 78. *S. Medina & M. Peña.* 234
- Miniati, F.** Cosmic Rays and Their Radiative Processes in Numerical Cosmology. *D. Ryu, F. Miniati, T. W. Jones, & H. Kang.* 305
- Monteiro, H.** A 3D Morpho-Kinematic Study of NGC 3132. *H. Monteiro, C. Morisset, R. Gruenwald, & S. M. Viegas.* 236
- Morales, R.** An Extended Multi-Zone Model for the MCG–6-30-15 Warm Absorber. *R. Morales, A. C. Fabian, & C. S. Reynolds.* 334
- Morisset, C.** A 3D Morpho-Kinematic Study of NGC 3132. *H. Monteiro, C. Morisset, R. Gruenwald, & S. M. Viegas.* 236
- Morozov, D. Kh.** Decompressive Quasi Shocks in Radiative Plasmas. *D. Kh. Morozov.* 151
- Morozov, D. Kh.** Reduced Description of Light Impurities in Hydrogen Coronal Plasmas. *D. Kh. Morozov & V. I. Gervids.* 131
- Moy, E.** Photoionization and Shock Modelling of the H II Region Abundance Sequence and of Luminous Infrared Galaxies. *L. J. Kewley, M. A. Dopita, C. A. Heisler, R. S. Sutherland, B. Rocca-Volmerange, & E. Moy.* 163
- Núñez, D.** Electric Discharges onto a Black Hole and X-Ray Transient Periodic Variability in AGN. *J. A. de Diego, D. Dultzin-Hacyan, D. Núñez, & R. Pérez.* 326
- Nakamura, K. E.** Plasma Simulator for Rotating Astrophysical Objects. *K. E. Nakamura, R. Matsumoto, M. Machida, & W. Chou.* 99
- Nakayama, M.** Thermal Structure and Radiation Spectra of Photoionized Gas in Accretion-Powered X-Ray Sources. *K. Masai & M. Nakayama.* 48
- Norman, M. L.** Introducing ZEUS-MP: A 3D, Parallel, Multiphysics Code for Astrophysical Fluid Dynamics (Invited Paper). *M. L. Norman.* 66
- O'Dell, C. R.** Outflows, Jets and Shocks in the Orion Nebula. *C. R. O'Dell & J. Bally.* 194
- Opher, R.** Alfvénic Heating of Accretion Disks. *M. J. Vasconcelos, V. Jatenco-Pereira, & R. Opher.* 103
- Opher, R.** MHD Waves in Stellar Winds and Accretion Disks. *M. J. Vasconcelos, V. Jatenco-Pereira, & R. Opher.* 83
- Péquignot, D.** Third-Dredge-Up Oxygen in Planetary Nebulae?. *D. Péquignot, A. A. Zijlstra, J. Walsh, & G. Dudziak.* 220

- Pérez, R.** Electric Discharges onto a Black Hole and X-Ray Transient Periodic Variability in AGN. *J. A. de Diego, D. Dultzin-Hacyan, D. Núñez, & R. Pérez.* 326
- Paerels, F.** X-Ray Line Spectroscopy of Massive X-Ray Binaries (Invited Paper). *D. A. Liedahl, M. Sako, P. S. Woźdowski, F. Paerels, & S. M. Kahn.* 40
- Passot, T.** On the Reduced MHD for Compressible Fluids. *A. Gazol, T. Passot, & P. L. Sulem.* 80
- Pastoriza, M. G.** Narrow-Line Seyfert 1 Galaxies: The [O III] $\lambda 5007/H\beta$ Ratio and Photoionization Models for the NLR. *A. Rodríguez-Ardila, L. Binette, M. G. Pastoriza, & C. J. Donzelli.* 319
- Peña, M.** Oxygen and Helium Abundances in Galactic H II Regions: Abundance Gradients. *M. Peña, L. Deharveng, J. Caplan, & R. Costero.* 184
- Peña, M.** Physical Parameters and Chemical Composition in Abell 78. *S. Medina & M. Peña.* 234
- Peimbert, M.** Photoionization Models of NGC 2363. *V. Luridiana, M. Peimbert, & C. Leitherer.* 166
- Perinotto, M.** Jets and Jet-Like Structures of Low-Ionization in Planetary Nebulae. *D. R. Gonçalves, R. L. M. Corradi, E. Villaver, A. Mampaso, & M. Perinotto.* 216
- Porquet, D.** X-Ray Plasma Diagnostics for Totally and Partially Photoionized Plasmas such as Warm Absorbers in AGN. *D. Porquet & J. Dubau.* 316
- Prieto, M. A.** The Coronal Line Spectrum of the Brightest Seyfert Galaxies as Seen by *ISO*. *M. A. Prieto & S. Viegas.* 324
- Różyczka, M.** MHD Models for PNe. *G. García-Segura, J. Franco, J. A. López, N. Langer, & M. Różyczka.* 210
- Raga, A. C.** Observations of Jets in H II Regions (HH 444). *L. López-Martín, A. C. Raga, J. A. López, & J. Meaburn.* 230
- Raga, A. C.** Reionization of the Universe and the Photoevaporation of Cosmological Minihalos (Invited Paper). *P. R. Shapiro & A. C. Raga.* 292
- Raga, A. C.** The Theory of Photoionized Jets. *A. C. Raga, L. López-Martín, J. A. López, & J. Meaburn.* 191
- Raymond, J. C.** Coronal Diagnostics (Invited Paper). *J. C. Raymond & K. Wood.* 32
- Raymond, J. C.** The EUV Emission-Line Spectrum of OY Carinae in Superoutburst: Scattering in the Wind. *C. W. Mauche & J. C. Raymond.* 232
- Reynolds, C. S.** An Extended Multi-Zone Model for the MCG-6-30-15 Warm Absorber. *R. Morales, A. C. Fabian, & C. S. Reynolds.* 334
- Reynolds, R. J.** Temperature Variations and Non-Photoionization Heating in the Warm Ionized Medium of Galaxies (Invited Paper). *R. J. Reynolds, L. M. Haffner, & S. L. Tufte.* 249
- Reynolds, R. J.** The Wisconsin H α Mapper: A New Look at the Warm Ionized Medium (Invited Paper). *L. M. Haffner, R. J. Reynolds, & S. L. Tufte.* 238
- Robledo-Rella, V.** Effects of the Stellar Component on Derived Physical Parameters of Galactic H II Regions. *V. Robledo-Rella.* 181
- Rocca-Volmerange, B.** Photoionization and Shock Modelling of the H II Region Abundance Sequence and of Luminous Infrared Galaxies. *L. J. Kewley, M. A. Dopita, C. A. Heisler, R. S. Sutherland, B. Rocca-Volmerange, & E. Moy.* 163
- Rodríguez-Ardila, A.** Narrow-Line Seyfert 1 Galaxies: The [O III] $\lambda 5007/H\beta$ Ratio and Photoionization Models for the NLR. *A. Rodríguez-Ardila, L. Binette, M. G. Pastoriza, & C. J. Donzelli.* 319
- Rossi, P.** Understanding NLR in Seyfert Galaxies: Numerical Simulation of Jet-Cloud Interaction. *A. Ferrari, S. Massaglia, P. Rossi, A. Capetti, & G. Bodo.* 329
- Roth, M.** An Old Bipolar Shell Associated with η Carinae. *J. Bohigas, M. Tapia, M. T. Ruiz, & M. Roth.* 343
- Rozas, M.** Density Bounded H II Regions: Ionization of the Diffuse Interstellar and Intergalactic Media. *A. Zurita, M. Rozas, & J. E. Beckman.* 290
- Ruiz, M. T.** An Old Bipolar Shell Associated with η Carinae. *J. Bohigas, M. Tapia, M. T. Ruiz, & M. Roth.* 343
- Russell, C. T.** Waves Observed by the *Galileo* Spacecraft in the Io Torus. *X. Blanco-Cano, C. T. Russell, R. J. Strangeway, D. E. Huddleston, M. G. Kivelson, & K. K. Khurana.* 343
- Ryu, D.** Cosmic Rays and Their Radiative Processes in Numerical Cosmology. *D. Ryu, F. Miniati, T. W. Jones, & H. Kang.* 305
- Ryu, D.** Three-Dimensional Simulations of the Parker Instability in a Uniformly-rotating Disk. *J. Kim, D. Ryu, & T. W. Jones.* 77

- Sako, M.** X-Ray Line Spectroscopy of Massive X-Ray Binaries (Invited Paper).
D. A. Liedahl, M. Sako, P. S. Wojdowski, F. Paerels, & S. M. Kahn. 40
- Sanders, W. T.** Hot Gas in the Galaxy: What Do We Know for Sure? (Invited Paper).
W. T. Sanders. 1
- Savin, D. W.** Dielectronic Recombination: An Overview of Theory and Experiment, and Some Astrophysical Implications (Invited Paper).
D. W. Savin. 115
- Savin, D. W.** Emission Line Spectra from Low-Density Laboratory Plasmas (Invited Paper).
P. Beiersdorfer, G. V. Brown, J. J. Drake, M.-F. Gu, S. M. Kahn, J. K. Lepson, D. A. Liedahl, C. W. Mauche, D. W. Savin, S. B. Utter, & B. J. Wargelin. 123
- Schmidt, A. A.** Internal Variations of Electron Density in Galactic H II Regions.
M. V. F. Copetti, H. O. Castañeda, J. A. H. Mallmann, & A. A. Schmidt. 343
- Shapiro, P. R.** Reionization of the Universe and the Photoevaporation of Cosmological Minihalos (Invited Paper).
P. R. Shapiro & A. C. Raga. 292
- Shelton, R. L.** On Determining the Sources of Hot Gas in the Halo.
R. L. Shelton. 259
- Sigalotti, L. Di G.** Collapse and Fragmentation Models of Cloud Cores with Magnetic Field Support.
J. Klapp & L. Di G. Sigalotti. 89
- Silant'ev, N. A.** New Estimations of the Relation between the Alpha-Effect and Magnetic Field Fluctuations.
N. A. Silant'ev. 101
- Slavin, J. D.** Photoionization of Galactic Halo Gas by Old Supernova Remnants.
J. D. Slavin. 246
- Smith, R. K.** Error Estimates for Emission Lines in the Hydrogen and Helium Isosequences.
R. K. Smith & N. S. Brickhouse. 134
- Staines, K.** Azimuthal Field Perturbations in the Jovian Magnetosphere: *Ulysses* Observations.
T. M. Edwards, A. Balogh, S. W. H. Cowley, M. K. Dougherty, M. W. Dunlop, R. J. Forsyth, N. F. Laxton, & K. Staines. 108
- Stasińska, G.** Photoionization Models for Giant H II Regions (Invited Paper).
G. Stasińska. 158
- Strangeway, R. J.** Waves Observed by the *Galileo* Spacecraft in the Io Torus.
X. Blanco-Cano, C. T. Russell, R. J. Strangeway, D. E. Huddleston, M. G. Kivelson, & K. K. Khurana. 343
- Sulem, P. L.** On the Reduced MHD for Compressible Fluids.
A. Gazol, T. Passot, & P. L. Sulem. 80
- Sulentic, J. W.** The Broad Line Region in Active Galactic Nuclei (Invited Paper).
D. Dultzin-Hacyan, P. Marziani, & J. W. Sulentic. 308
- Sutherland, R. S.** Photoionization and Shock Modelling of the H II Region Abundance Sequence and of Luminous Infrared Galaxies.
L. J. Kewley, M. A. Dopita, C. A. Heisler, R. S. Sutherland, B. Rocca-Volmerange, & E. Moy. 163
- Tapia, M.** An Old Bipolar Shell Associated with η Carinae.
J. Bohigas, M. Tapia, M. T. Ruiz, & M. Roth. 343
- Tecpoyotl-T., M.** Condensation Production in Comet Tail Plasma.
S. V. Koshevaya, M. Tecpoyotl-T., E. A. Gutiérrez-D., G. N. Burlak, & A. N. Kotsarenko. 112
- Tschöke, D.** *ROSAT* X-Ray Observations of Central Galactic Starbursts.
D. Tschöke & G. Hensler. 51
- Tufte, S. L.** Temperature Variations and Non-Photoionization Heating in the Warm Ionized Medium of Galaxies (Invited Paper).
R. J. Reynolds, L. M. Haffner, & S. L. Tufte. 249
- Tufte, S. L.** The Wisconsin H α Mapper: A New Look at the Warm Ionized Medium (Invited Paper).
L. M. Haffner, R. J. Reynolds, & S. L. Tufte. 238
- Utter, S. B.** Cataloguing Emission Line Spectra from Fe VII–Fe XXIV in the Extreme Ultraviolet.
J. K. Lepson, P. Beiersdorfer, G. V. Brown, S. M. Kahn, D. A. Liedahl, C. W. Mauche, & S. B. Utter. 137
- Utter, S. B.** Emission Line Spectra from Low-Density Laboratory Plasmas (Invited Paper).
P. Beiersdorfer, G. V. Brown, J. J. Drake, M.-F. Gu, S. M. Kahn, J. K. Lepson, D. A. Liedahl, C. W. Mauche, D. W. Savin, S. B. Utter, & B. J. Wargelin. 123
- Vázquez-Semadeni, E.** Turbulent Dissipation in the Interstellar Medium: Implications for Galaxy Formation and Evolution.
V. Avila-Reese & E. Vázquez-Semadeni. 63
- Vasconcelos, M. J.** Alfvénic Heating of Accretion Disks.
M. J. Vasconcelos, V. Jatenco-Pereira, & R. Opher. 103
- Vasconcelos, M. J.** MHD Waves in Stellar Winds and Accretion Disks.
M. J. Vasconcelos, V. Jatenco-Pereira, & R. Opher. 83

- Viegas, S. M.** A 3D Morpho-Kinematic Study of NGC 3132 . *H. Monteiro, C. Morisset, R. Gruenwald, & S. M. Viegas.* 236
- Viegas, S. M.** The Coronal Line Spectrum of the Brightest Seyfert Galaxies as Seen by *ISO*. *M. A. Prieto & S. Viegas.* 324
- Villaver, E.** Jets and Jet-Like Structures of Low-Ionization in Planetary Nebulae. *D. R. Gonçalves, R. L. M. Corradi, E. Villaver, A. Mampaso, & M. Perinotto.* 216
- Villaver, E.** The Interaction of Multiple Shell Planetary Nebulae with the ISM. *E. Villaver, A. Manchado, & G. García-Segura.* 213
- Vishniac, E.** Fast Reconnection of Magnetic Fields in Turbulent Fluids (Invited Paper). *A. Lazarian & E. Vishniac.* 55
- Walsh, J.** Third-Dredge-Up Oxygen in Planetary Nebulae?. *D. Pequignot, A. A. Zijlstra, J. Walsh, & G. Dudziak.* 220
- Walter, F.** X-Ray Observations of Superbubbles in Dwarf Galaxies. *E. Brinks, F. Walter, & J. Kerp.* 279
- Wargelin, B. J.** Emission Line Spectra from Low-Density Laboratory Plasmas (Invited Paper). *P. Beiersdorfer, G. V. Brown, J. J. Drake, M.-F. Gu, S. M. Kahn, J. K. Lepson, D. A. Liedahl, C. W. Mauche, D. W. Savin, S. B. Utter, & B. J. Wargelin.* 123
- Wojdowski, P. S.** X-Ray Line Spectroscopy of Massive X-Ray Binaries (Invited Paper). *D. A. Liedahl, M. Sako, P. S. Wojdowski, F. Paerels, & S. M. Kahn.* 40
- Wood, K.** Coronal Diagnostics (Invited Paper). *J. C. Raymond & K. Wood.* 32
- Yáñez, M. A.** Multi-Spacecraft In-Situ Observations of Interplanetary Transient Shocks. *J. A. González-Esparza & M. A. Yáñez.* 105
- Zijlstra, A. A.** Third-Dredge-Up Oxygen in Planetary Nebulae?. *D. Pequignot, A. A. Zijlstra, J. Walsh, & G. Dudziak.* 220
- Zurita, A.** Density Bounded H II Regions: Ionization of the Diffuse Interstellar and Intergalactic Media. *A. Zurita, M. Rozas, & J. E. Beckman.* 290