

## **PUBLICATIONS**

<b>I. Papers appeared in SCI journals</b>	<b>2</b>
<b>II. Papers appeared in non-SCI journals</b>	<b>11</b>
<b>III. Papers appeared in proceedings</b>	<b>13</b>
<b>IV. Abstracts appeared in arXiv.org</b>	<b>23</b>

### **I. Papers appeared in SCI journals:**

1. The Growth of Linear Perturbations of Adiabatic Shock Waves, Ryu, D. & Vishniac, E. T. 1987, *The Astrophysical Journal*, 313, 820-841.
2. A Linear Stability Analysis for Wind Driven Bubbles, Ryu, D. & Vishniac, E. T. 1988, *The Astrophysical Journal*, 331, 350-358.
3. A Model for the Evolution of the Intergalactic Medium, Chiang, W. - H., Ryu, D. & Vishniac, E. T. 1988, *Publications of the Astronomical Society of the Pacific*, 100, 1386-1392.
4. On the Stability of Decelerating Shocks, Vishniac, E. T. & Ryu, D. 1989, *The Astrophysical Journal*, 337, 917-926.
5. Evolution of the Intergalactic Medium in a Cold Dark Matter Dominated Universe, Chiang, W. - H., Ryu, D. & Vishniac, E. T. 1989, *The Astrophysical Journal*, 339, 603-618.
6. Neutron Stars and White Dwarfs in Galactic Halos?, Ryu, D., Olive, K. A. & Silk, J. 1990, *The Astrophysical Journal*, 353, 81-89.
7. A Model for the Distribution of the Intergalactic Medium, Ryu, D., Vishniac, E. T. & Chiang, W. - H. 1990, *The Astrophysical Journal*, 354, 389-399.
8. The Dynamic Instability of Adiabatic Blastwaves, Ryu, D. & Vishniac, E. T. 1991, *The Astrophysical Journal*, 368, 411-425.
9. Acoustic Instability in Cosmic Ray Mediated Shocks, Kang, H., Jones, T. W. & Ryu, D. 1992, *The Astrophysical Journal*, 385, 193-204.
10. Convective Instability in Differentially Rotating Disks, Ryu, D. & Goodman, J. 1992, *The Astrophysical Journal*, 388, 438-450.
11. The Stability of Cosmic Ray Dominated Shocks: A Secondary Instability, Ryu, D., Kang, H. & Jones, T. W. 1993, *The Astrophysical Journal*, 405, 199-206.
12. A Cosmological Hydrodynamic Code Based on the Total Variation Diminishing Scheme, Ryu, D., Ostriker, J. P., Kang, H. & Cen R. 1993, *The Astrophysical Journal*, 414, 1-19.
13. Nonlinear Evolution of Tidally Distorted Accretion Disks: Two-Dimensional Simulations, Ryu, D. & Goodman, J. 1994, *The Astrophysical Journal*, 422, 269-288.

14. Oblique MHD Cosmic-Ray Mediated Shocks: Two-Fluid Numerical Simulations, Frank, A., Jones, T. W. & Ryu, D. 1994, *The Astrophysical Journal Supplement Series*, 90, 975-980.
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16. A Comparison of Cosmological Hydrodynamic Codes, Kang, H., Ostriker, J. P., Cen, R., Ryu, D., Hernquist, L., Evrard, A. E., Bryan, G. L. & Norman, M. L. 1994, *The Astrophysical Journal*, 430, 83-100.
17. The Evolution and Efficiency of Oblique MHD Cosmic-Ray Shocks: Two-Fluid Simulations, Frank, A., Jones, T. W. & Ryu, D. 1995, *The Astrophysical Journal*, 441, 629-643.
18. Numerical Magnetohydrodynamics in Astrophysics: Algorithm and Tests for One-Dimensional Flow, Ryu, D. & Jones, T. W. 1995, *The Astrophysical Journal*, 442, 228-258.
19. Background X-ray Emission from Hot Gas in CDM and CDM+ $\Lambda$  Universes: Spectral Signatures, Cen, R., Kang, H., Ostriker, J. P. & Ryu, D. 1995, *The Astrophysical Journal*, 451, 436-443.
20. Stable and Unstable Accretion Flows with Angular Momentum near a Point Mass, Ryu, D., Brown, G. L., Ostriker, J. P. & Loeb, A. 1995, *The Astrophysical Journal*, 452, 364-378.
21. Numerical Magnetohydrodynamics in Astrophysics: Algorithm and Tests for Multi-Dimensional Flow, Ryu, D., Jones, T. W. & Frank, A. 1995, *The Astrophysical Journal*, 452, 785-796.
22. Cluster Accretion Shocks as Possible Acceleration Sites for Ultra High Energy Protons below the Greisen Cutoff, Kang, H., Ryu, D. & Jones, T. W. 1996, *The Astrophysical Journal*, 456, 422-427.
23. The MHD Kelvin-Helmholtz Instability: A Two-Dimensional Numerical Study, Frank, A., Jones, T. W., Ryu, D. & Gaalaas, J. B. 1996, *The Astrophysical Journal*, 460, 777-793.
24. Global Aspects of Elliptical Instability in Tidally Distorted Accretion Disks, Ryu, D., Goodman, J. & Vishniac, E. T. 1996, *The Astrophysical Journal*, 461, 805-811.
25. Supersonic Collisions between Two Gas Streams, Lee, H. M., Kang, H.

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26. Numerical Simulations of Standing Shocks in Accretion Flows around Black Holes: A Comparative Study, Molteni, D., Ryu, D. & Chakrabarti, S. L. 1996, *The Astrophysical Journal*, 470, 460-469.
  27. The Magnetohydrodynamics of Supersonic Gas Clouds: MHD Cosmic Bullets and Wind-Swept Clumps, Jones, T. W., Ryu, D. & Tregillis, I. L. 1996, *The Astrophysical Journal*, 473, 365-382.
  28. Zero Energy Rotating Accretion Flows near a Black Hole, Ryu, D., Chakrabarti, S. L. & Molteni, D. 1997, *The Astrophysical Journal*, 474, 378-388.
  29. Accreting Matter around Clusters of Galaxies: One-Dimensional Considerations, Ryu, D. & Kang, H. 1997, *Monthly Notices of the Royal Astronomical Society*, 284, 416-424.
  30. The Protogalactic Origin for Cosmic Magnetic Fields, Kulsrud, R. M., Cen, R., Ostriker, J. P. & Ryu, D. 1997, *The Astrophysical Journal*, 480, 481-491.
  31. The MHD Kelvin-Helmholtz Instability II: The Roles of Weak and Oblique Fields in Planar Flows, Jones, T. W., Gaalaas, J. B., Ryu, D. & Frank, A. 1997, *The Astrophysical Journal*, 482, 230-244.
  32. The Parker Instability under a Linear Gravity, Kim, J., Hong, S. S. & Ryu, D. 1997, *The Astrophysical Journal*, 485, 228-239.
  33. Hydrodynamics of Cloud Collisions in 2D: The Fate of Clouds in a Multi-phase Medium, Miniati, F., Jones, T. W., Ferrara, A. & Ryu, D. 1997, *The Astrophysical Journal*, 491, 216-232.
  34. Effects of Cooling on the Propagation of Magnetized Jets, Frank, A., Ryu, D., Jones, T. W. & Noriega-Crespo, A. 1998, *The Astrophysical Journal Letters*, 494, L79-L83.
  35. Baryonic Fraction in the Cold Plus Hot Dark Matter Universe, Choi, E. & Ryu, D. 1998, *Monthly Notices of the Royal Astronomical Society*, 296, 109-118.
  36. Cosmic Magnetic Fields in Large Scale Filaments and Sheets, Ryu, D., Kang, H. & Biermann, P. L. 1998, *Astronomy and Astrophysics*, 335, 19-25.
  37. Where's the Doughnut? LBV Bubbles and Aspherical Fast Winds,

Frank, A., Ryu, D. & Davidson, K. 1998, *The Astrophysical Journal*, 500, 291-301.

38. Three-Dimensional Evolution of the Parker Instability under a Uniform Gravity, Kim, J., Hong, S. S., Ryu, D. & Jones, T. W. 1998, *The Astrophysical Journal Letters*, 506, L139-L142.

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44. Multidimensional Simulations of Relativistic Electron Transport and Synchrotron Emission in Radio Galaxies, Jones, T. W., Ryu, D. & Tregillis, I. L. 1999, *Astronomische Nachrichten*, 320, 366.

45. Enhanced Cloud Disruption by Magnetic Field Interaction, Gregori, G., Miniati, F., Ryu, D. & Jones, T. W. 1999, *The Astrophysical Journal Letters*, 527, L113-L116.

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54. Parker Instability in a Uniformly-rotating Disk, Kim, J., Ryu, D. & Jones, T. W. 2001, *The Astrophysical Journal*, 557, 464-474.
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65. Cosmological Shock Waves and Their Role in the Large Scale Structure of the Universe, Ryu, D., Kang, H., Hallman, E. & Jones, T. W. 2003, *The Astrophysical Journal*, 593, 599-610.
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72. Three-Dimensional Numerical Simulations of Thermal-Gravitational Instability in Protogalactic Halos, Baek, C. H., Kang, H., Kim, J. & Ryu, D. 2005, *The Astrophysical Journal*, 630, 689-704.
73. Numerical Relativistic Hydrodynamics Based on the Total Variation Diminishing Scheme, Choi, E. & Ryu, D. 2005, *New Astronomy*, 11, 116-129.
74. 3D Simulations of MHD Jet Propagation Through Uniform and Stratified External Environments, O'Neill, S. M., Tregillis, I. L., Jones, T. W. & Ryu, D. 2005, *The Astrophysical Journal*, 633, 717-732.
75. The 21 centimeter Background from the Cosmic Dark Ages: Minihalos and the Intergalactic Medium before Reionization, Ahn, K., Shapiro, P. R., Alvarez, M. A., Iliev, I. T., Martel, H. & Ryu, D. 2006, *New Astronomy Reviews*, 50, 179-183.
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78. The Effects of Rotation on Thermal-Gravitational Instability in the Protogalactic Disk Environment, Baek, C. H., Ryu, D., Kang, H. & Kim, J. 2006, *The Astrophysical Journal Letters*, 643, L83-L86.
79. The 21 centimeter Background from the Cosmic Dark Ages: Minihalos and the Intergalactic Medium before Reionization, Shapiro, P. R., Ahn, K., Alvarez, M. A., Iliev, I. T., Martel, H. & Ryu, D. 2006, *The Astrophysical Journal*, 646, 681-690.
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81. Supersonic, Rotating Accretion Flows around Black Holes in Two-Dimensional Cylindrical Geometry, Lee, S.-J. & Ryu, D. 2006, *Journal of*

Korean Physical Society, 49, 1830-1833.

82. A New Relativistic Hydrodynamic Code for Astrophysics, Ryu, D., Chattopadhyay, I. & Choi, E. 2006, Journal of Korean Physical Society, 49, 1842-1846.

83. Hydrodynamic Interactions of Relativistic Extragalactic Jets with Dense Clouds, Choi, E., Witta, P. J. & Ryu, D. 2007, The Astrophysical Journal, 655, 769-780.

84. The X-ray Pulse Profile of BG CMi, Choi, C.-S., Dotani, T., Kim, Y. & Ryu, D. 2007, New Astronomy, 12, 622-629.

85. Cosmological Shock Waves in the Large Scale Structure of the Universe: Non-gravitational Effects, Kang, H., Ryu, D., Cen, R. & Ostriker, J. P. 2007, The Astrophysical Journal, 669, 729-740.

86. Turbulence and Magnetic Fields in the Large Scale Structure of the Universe, Ryu, D., Kang, H., Cho, J. & Das, S. 2008, Science, 320, 909-912.

87. Propagation of UHE Protons through Magnetized Cosmic Web, Das, S., Kang, H., Ryu, D. & Cho, J. 2008, The Astrophysical Journal, 682, 29-38.

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91. Shock Waves in the Large-Scale Structure of the Universe, Ryu, D. & Kang, H. 2009, Astrophysics and Space Science, 322, 65-70.

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93. Characteristic Lengths of Magnetic Field in Magnetohydrodynamic Turbulence, Cho, J. & Ryu, D. 2009, The Astrophysical Journal Letters, 705, L90-L94.

94. Intergalactic Magnetic Field and Arrival Direction of Ultra-High-Energy

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97. Diffusive Shock Acceleration in Test-Particle Regime, Kang, H. & Ryu, D. 2010, submitted to *The Astrophysical Journal*.

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## II. Papers appeared in non-SCI journals:

1. Galaxy Correlation in a Bubbly Universe, Ryu, D. 1992, Publications of the Korean Astronomical Society, 7, 25-30.
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3. A Multidimensional Magnetohydrodynamic Code in Cylindrical Geometry, Ryu, D., Yun, H. S. & Choe, S.-U. 1995, Journal of Korean Astronomical Society, 28, 223-243.
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5. Formation and Proto-Globular Cluster Clouds by Thermal Instability, Kang, H., Lake, G. & Ryu, D. 2000, Journal of Korean Astronomical Society, 33, 111-121.
6. Magnetohydrodynamics Code Basics, Ryu, D. 2001, Journal of Korean Astronomical Society, 34, 209-213.
7. An Isothermal Magnetohydrodynamic Code and Its Application to the Parker Instability, Kim, J., Ryu, D., Jones, T. W. & Hong, S. S. 2001, Journal of Korean Astronomical Society, 34, 281-283.
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10. A High Performance Cluster for Astronomical Computations, Kim, J., Kim, B.-G., Im, I. S., Baek, C. H., Nam, H. W., Ryu, D. & Kang, Y. W. 2004, Publications of the Korean Astronomical Society, 19, 77-81.
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### III. Papers appeared in proceedings:

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3. Phase Space Distribution of Halo Particles and Detection of WIMPS, Ryu, D. & Pérez, A. 1991, in AIP Conference Proceedings 222: "After the First Three Minutes", eds. S. S. Holt, C. H. Bennett & V. Trimble (New York: American Institute of Physics), 463-466.
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