

Re'em Sari - List of Publications

Theoretical Astrophysics 130-33, CALTECH, Pasadena, CA 91125

Papers in Refereed Journals

- submitted or in press**
- “Giant Flares as Mini Gamma Ray Bursts”
E. Nakar, T. Piran and R. Sari
ApJ, submitted.
- R. Sari “First and second-type self-similar solutions of implosions and explosions containing ultra-relativistic shocks”
PoF, submitted.
- published**
- 71) E. Agol, J. Steffen, R. Sari and W. Clarkson “On detecting terrestrial planets with timing of giant planet transits”
MNRAS, 2005, **359**, 567.
- 70) M. Pan and R. Sari
“Shaping the Kuiper belt size spectrum by shattering large but strengthless bodies”
Icarus, 2005, **173**, 342.
- 69) P. Goldreich, Y. Lithwick and R. Sari
“The Final Stages of Planet Formation”
ApJ, 2004, **614**, 497.
- 68) P. Goldreich, Y. Lithwick and R. Sari
“Planet Formation by Coagulation: A Focus on Uranus and Neptune”
ARA&A, 2004, **42**, 529..
- 67) M. Pan and R. Sari
“A generalization of the Lagrangian points: studies of resonance for highly eccentric orbits”
AJ, 2004, **128**, 141.
- 66) R. Sari and P. Goldreich
“Planet - Disk Symbiosis”
ApJ Letters, 2004, **606**, L77.
- 65) J. Greiner, S. Klose, K. Reinsch, S. H. Martin, Hans, R. Sari D. H. Hartmann, C. Kouveliotou, A. Rau, E. Palazzi, C. Straubmeier, B. Stecklum, S. Zharikov, G. Tovmassian, O. Brnbantner, C. Ries, E. Jehin, A. Henden, A. A. Kaas, T. Grav, J. Hjorth, H. Pedersen, R. A. M. J. Wijers, A. Kaufer, H Park, G. Williams and O. Reimer
“Evolution of the polarization of the optical afterglow of the γ -ray burst GRB030329”
Nature, 2003, **426**, 157.
- 64) E. Berger, S. R. Kulkarni, G. Pooley, D. A. Frail, V. McIntyre, R. M. Wark, R. Sari, A. M. Soderberg, D. W. Fox, S. Yost and P. A. Price
“A common origin for cosmic explosions inferred from calorimetry of GRB030329”
Nature, 2003, **426**, 154.

- 63) S. A. Yost, F. A. Harrison, R. Sari, D. A. Frail
“A Study of the Afterglows of Four GRBs: Constraining the Explosion and Fireball Model”
ApJ, 2003, **597**, 459.
- 62) R. Perna, R. Sari and D. A. Frail
“Jets in GRBs: Tests and Predictions for the Structured Jet Model”
ApJ, 2003, **594**, 379.
- 61) P. A. Price, D. W. Fox, S. R. Kulkarni, B. A. Peterson, B. P. Schmidt, A. M. Soderberg, S. A. Yost, E. Berger, S. G. Djorgovski, D. A. Frail, F. A. Harrison, R. Sari, A. W. Blain, S. C. Chapman
“The bright optical afterglow of the nearby γ -ray burst of 29 March 2003”
Nature, 2003, **423**, 844.
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“The Broadband Afterglow of GRB 980703”
ApJ, 2003, **590**, 992.
- 59) P. A. Price, S. R. Kulkarni, E. Berger, D. W. Fox, J. S. Bloom, S. G. Djorgovski, D. A. Frail, T. J. Galama, F. A. Harrison, P. McCarthy, D. E. Reichart, R. Sari, S. A. Yost, H. Jerjen, K. Flint, A. Phillips, B. E. Warren, T. S. Axelrod, R. A. Chevalier, J. P. Halpern, J. Holtzman, R. A. Kimble, B. P. Schmidt, J. C. Wheeler, F. Frontera, E. Costa, L. Piro, K. Hurley, T. Cline, C. Guidorzi, E. Montanari, E. Mazets, S. Golenetskii, I. Mitrofanov, D. Anfimov, A. Kozyrev, M. Litvak, A. Sanin, W. Boynton, C. Fellows, K. Harshman, C. Shinohara, A. Gal-Yam, E. Ofek and Y. Lipkin
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ApJ, 2003, **587**, 135.
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ApJ, 2003, **584**, 931.
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“Discovery of Early Optical Emission from GRB 021211”
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- 54) P. Goldreich and R. Sari
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- 53) T. J. Galama, D. A. Frail, R. Sari, E. Berger, G. B. Taylor, and S. R. Kulkarni
“Continued Radio Monitoring of the Gamma Ray Burst 991208”
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ApJ, 2003, Letters, **584**, L47.
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- 39) S. Kobayashi and R. Sari
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- 14) R. Sari and T. Piran,
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Chapters in Books

K. Hurley, R. Sari, S. G. Djorgovski
“Cosmic Gamma-Ray Bursts, Their Afterglows, and Their Host Galaxies”
in “Compact Stellar X-Ray Sources”, Editors W. Lewin and M. van der Klis
Cambridge University Press 2003.