**THE RAYMOND AND BEVERLY SACKLER INSTITUTE OF ASTRONOMY**

**PUBLICATIONS 2008**

**The following are publications in refereed journals of members of the Sackler Institute of Astronomy:**
Almoznino, E., Barkana, R., Beck, S. C., Brosch, N., Broadhurst, T. J., Contini, M., Formiggini, L., Goldman, I., Kaspi, S., Kozlovsky, B-Z., Leibowitz, E. M., Levinson, A., Maoz, D., Mazeh, T., Netzer, H., Rephaeli, Y., and Sternberg, A.

**Research workers and graduate students:**
Arieli, Y., Barzilay, Y., Bromberg, O., Finkelman, I., Gnat, O., Gorbykov, E., Horesh, A., Lemze, D., Lipkin, Y., Medezinski, E., Mor, R., Moran, A., Naoz, S., Ofir, A., Polishook, D., Sadeh, S., Shaham, A., Sharon, K., Shporer, A., Spector, O., Trakhtenbrot, B., and Zitrin, A.

**PAPERS PRINTED IN REFEREED JOURNALS**

Aigrain, S., et al including **Mazeh, T**. and **Zucker, S**. *"Transiting exoplanets from the CoRoT space mission IV: CoRoT-Exo-4b: A transiting planet in a 9.2 day synchronous orbit",* A&A. 488: 43. 2008.

Alonso, R., et al including **Mazeh, T**. and **Shporer, A**., *"Transiting exoplanets from the CoRoT space mission. II. CoRoT-Exo-2b: a transiting planet around an active G star",* A&A, 482: L21, 2008

Arévalo, P., Uttley, P., **Kaspi, S**., Breedt, E., Lira, P. and McHardy, I. M. *"Correlated X-ray/Optical Variability in the Quasar MR2251-178"*. MNRAS, 389: 147, 2008.

**Arieli, Y., Rephaeli, Y.,** and Norman, M. L. *"A New Approach for Simulating Galaxy Cluster Properties"*, ApJ, 683, L111, 2008

Barge, P. et al. including **Mazeh, T.** and **Shporer, A.**, *"Transiting exoplanets from the CoRoT space mission. I. CoRoT-Exo-1b: a low-density short-period planet around a G0V star"*, A&A, 482: L17, 2008.

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**Barkana, R.,** *"The infancy of cosmic reionization",* MNRAS, 391, 727, 2008.

**Barzilay, Yudith** and **Levinson, Amir**. *"Structure and nuclear composition of general relativistic, magnetohydrodynamic outflows from neutrino-cooled disks"*, New Astronomy, Volume 13, Issue 6, p.386-394. 2008.

**Beck S.C**. *" Recombination Lines of Embedded Clusters"* , A&A, 489: 567, 2008.

Benitez, N., et al including **Broadhurst, T.** *"Optimal filter systems for photometric redshift estimation"*, accepted for publication in ApJ. Letters, 2008.

Bradley, L. D. et al including **Broadhurst, T.** *"Discovery of a Very Bright Strongly-Lensed Galaxy Candidate at z ~ 7.6"*, ApJ. 678: 647, 2008.

**Broadhurst, T. J.** and **Barkana, R.,** *"Large Einstein radii: a problem for Lambda-CDM",* MNRAS, 390, 1647, 2008.

**Broadhurst, T.,** Umetsu, K., **Medezinski, E.,** Oguri, M., **Rephaeli, Y**. *"Comparison of Cluster Lensing Profiles with* ΛCDM *Predictions"*, ApJ. 685: 9, 2008.

**Brosch, N., Polishook, D., Shporer, A., Kaspi, S., Berwald, A.** and Manulis, I. *"The Centurion 18 telescope of the Wise Observatory"*, Astrophysics and Space Science, 2008.

Coe, D., Fuselier, E., Benitz, N., **Broadhurst, T**., Frye, B. and Ford, H. *"LensPerfect: Gravitational Lens Mass Map Reconstructions Yielding Exacta Reproduction of All Multiple Images"*, ApJ. 681, Issue 2: pp. 814-830, 2008.

**Contini, M**., Angeloni, R. and Rafanelli, P. *"The symbiotic star CH Cygni. II. The broad Ly alpha emission line explained by shocks".* Accepted for publication in A&A, 2008.

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Ferrari, C., Govoni, F., Schindler, S., Bykov, A.M. and **Rephaeli, Y**. *"Observations of Extended Radio Emission in Clusters"*, Space Science Reviews, 134: 93, 2008.

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Gal-Yam, A., et al including **Maoz, D**. "*GALEX Spectroscopy of SN 2005ay Suggests Ultraviolet Spectral Uniformity among Type II-P Supernovae",* AJ. 685: 117, 2008.

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**Goldman, I.** *"The effective tidal viscosity in close solar-type binaries",* AN, 329, 762, 2008.

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Kaastra, J. S., et al including **Rephaeli, Y.** *"Clusters of Galaxies: Beyond the Thermal View"*, Space Science Reviews, 134: 1-6, 2008.

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Oguri, M., **Ofek, E. O**., et al including **Broadhurst T**. *"The Third Image of the Large-Separation Lensed Quasar SDSS J1029+2623",* ApJ. 676: L1, 2008.

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**PAPERS PRESENTED AT MEETINGS**

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**Beck, S**. *"Winds of Embedded O Star Clusters",* in IAU Symposium 250, Massive Stars as Cosmic Engines Published by Cambridge University Press, Cambridge, 2008 p. 559

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Eggenberger, A. et al including **Mazeh, T.** and **Zucker, S**. *"Extrasolar Planets in Double and Multiple Stellar Systems",* Multiple Stars across the H-R Diagram, ESO Astrophysics Symposia, Volume. ISBN 978-3-540-74744-4. Springer-Verlag Berlin Heidelberg, 2008, p. 169.

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**Mazeh, T.** *"Observational Evidence for Tidal Interaction in Close Binary Systems",* Review Paper. In "Tidal effects in stars, planets and disks", M.-J. Goupil and J.-P. Zahn (eds.), EAS Publication Series. 2008.

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