THE RAYMOND AND BEVERLY SACKLER INSTITUTE OF ASTRONOMY

PUBLICATIONS 2009

(As appear in NASA ADS)

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., Nakar, E., Netzer, H., Rephaeli, Y., Sadeh, S., and Sternberg, A.

Research workers and graduate students:
Arieli, Y., Balila, O., Bromberg, O., Cohen, E., Dvorkin, I., Evenstein, R., Finkelman, I., Gorbykov, E., Graur, Or., Horesh, A., Lemze, D., Maman, A., Medezinski, E., Mikoulizky, Z., Mor, R., Naoz, S., Ofir, A., Polishook, D., Radai, Y., Shvartzvald, Y., Shaham, A., Shporer, A., Spector, O., Svirski, G., Tal-Or, L., Trakhtenbrot, B., and Zitrin, A.

PAPERS PRINTED IN REFEREED JOURNALS

Aigrain, S., et al including **Mazeh, T**. and **Zucker, S**. *"Noise properties of the CoRoT data: a planet-finding perspective"*, accepted for publication in A&A. 2009.

Almenara, J. M. and 40 coauthors including **Mazeh, T**. and **Shporer, A.** *"Rate and nature of false positives in the CoRoT exoplanet search",* A&A. 506: 337, 2009.

Almoznino, E., Brosch, N., Finkelman, I., Netzer, H., Yacoby, E. R., Topaz, J. *"Ground-based calibration of the TAUVEX flight model",* Astrophysics Space Science, 320: 321, 2009.

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Alonso, R. et al including **Mazeh, T.** *"The secondary eclipse of CoRoT-1b"*, accepted for publication in A&A, 2009.

Angeloni, R.; **Contini, M**.; Ciroi, S.; Rafanelli, P. *"The spectral energy distribution of D-type symbiotic stars: the role of dust shell"* arXiv0911.4853A, accepted for publication in MNRAS, 2009.

Barkana, R. *"Studying the sources of cosmic reionization with 21-cm fluctuations",* MNRAS 397: 1454, 2009.

Bartko, H. et al, including **Sternberg A**. *"Evidence for Warped Disks of Young Stars in the Galactic Center"*, ApJ. 697: 1742, 2009.

Bartko, H. and 12 coauthors including **Sternberg, A**. *"An Extremely Top-Heavy IMF in the Galactic Center Stellar Disks"*, in press ApJ. 2009.

Batista, V. and 90 coauthors including **Maoz, D., Kaspi, S**., **Polishook, D.** and **Shporer, A.** *"Mass measurement of a single unseen star and planetary detection efficiency for OGLE 2007-BLG-050"* A&A. 508: 467B, 2009.

Benítez, N. et al including **Broadhurst, T.** *"Optimal Filter Systems for Photometric Redshift Estimation",* ApJ. 692L: 5. 2009.

Bentz, M. C., Peterson, B. M., **Netzer, H**., Pogge, R. W. and Vestergaard, M. *"The Radius-Luminosity Relationship for Active Galactic Nuclei: The Effect of Host-Galaxy Starlight on Luminosity Measurements. II. The Full Sample of reverberation-Mapped AGN's"*, ApJ. 697: 160, 2009.

Bouwens, R. J. et al including **Broadhurst, T.** *"z ~ 7-10 Galaxies Behind Lensing Clusters: Contrast with Field Search Results"* ApJ. 690: 1764, 2009.

Bromberg, O. and **Levinson, A.** *"Recollimation and Radiative Focusing of Relativistic Jets: Applications to Blazars and M87",* ApJ. 699: 1274, 2009.

Brosch, N. *"Exotic UV astronomy"*, Astrophysics Space Science, 320: 207, 2009.

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Brosch, N., Kniazev, A. Y., Moiseev, A., Pustilnik, S. A. *"On the Nature of the Apparent Ring Galaxy SDSS J075234.33+292049.8"* In press MNRAS, 2009.

Brosch, N., Häggström, I., Pellinen-Wannberg, A. and Westman, A. *"Unusual features in high statistics radar meteor studies at EISCAT"*, Accepted for publication in MNRAS, 2009.

Cabrera, J. and 45 coauthors including **Mazeh, T., Ofir, A.** and **Shporer, A.** *"Planetary transit candidates in CoRoT-LRc01 field"*, A&A. 506: 501, 2009.

Carpano, S. et al. including **Ofir, A.** *"Planetary transit candidates in CoRoT-IRa01 field",* A&A, 506, 491. (2009);

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Deeg, H. J., **Shporer, A., Mazeh T**. and 16 coauthors, *"Ground-based photometry of space-based transit detections: photometric follow-up of the CoRoT mission"* A&A. 506: 343, 2009.

Fernandez, J. M. et al including **Shporer, A.** and **Mazeh, T**. *"The Transit Light Curve Project. XII. Six Transits of the Exoplanet XO-2b"*, AJ. 137: 4911, 2009.

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Förster S. and 20 coauthors including **Sternberg, A**. *"The SINS Survey: SINFONI Integral Field Spectroscopy of z ~ 2 Star-forming Galaxies",* ApJ. 706: 1364, 2009.

Genel, S., Genzel, R., Bouché, N., Naab, T., **Sternberg, A**. *"The Halo Merger Rate in the Millennium simulation and Implications for Observed Galaxy Merger Fractions"*, ApJ. 701: 2002, 2009.

Gómez de Castro, Ana Inés., **Brosch, Noah**. *"Foreword",* Astrophysics and Space Science, 320: 1-3, 2009.

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Gorbikov, E., Brosch, N., and Afonso, C. . "*A Two-Colour CCD Survey of the North Celestial Cap: I. The Method"*, accepted for publication in Astrophysics and Space Science, 2009.

Hicks, E. K. S. et al including **Sternberg, A**. *"The role of Molecular Gas in Obscuring Seyfert Active Galactic Nuclei"*, ApJ. 696: 448, 2009.

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Lazar, A., **Nakar**, E., Piran, T. *"Gamma-Ray Burst Light Curves in the Relativistic Turbulence and Relativistic Subjet Models",* ApJ Letters, 695: 10, 2009.

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Luzzi, G. et al including **Rephaeli, Y.** *"Redshift Dependence of the CMB Temperature from S-Z Measurements",* ApJ. 705: 1122L, 2009.

Mazeh, T., et al including **Zucker, S**. *"Removing systematics from the CoRoT light curves: I. Magnitude-Dependent Zero Point"*, A&A. 506: 431, 2009.

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Müller Sánchez, F. et al including **Sternberg, A**. *"Molecular Gas Streamers Feeding and Obscuring the Active Nucleus of NGC 1068",* ApJ. 691: 749, 2009.

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Ofir, A., Deeg, H. J. and Lacy, C. H. S. *"Searching For Transiting Circumbinary Planets in CoRoT and Ground-Based Data Using CB-BLS",* A&A, 506, 445, 2009.

Pál, A., et al including **Shporer, A**. and **Mazeh, T.** *"Independent Confirmation and Refined Parameters of the Hot Jupiter XO-5b"*, ApJ. 700: 783, 2009.

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Polishook, D., Brosch, N. *"Photometry and spin rate distribution of small-sized main belt asteroids"*, Icarus, 199: 319, 2009.

Polishook, D., Brosch, N., Prialnik, D. and **Kaspi, S.** *"Simultaneous Spectroscopic and Photometric Observations of Binary Asteroids",* accepted for publication in Meteoritics and Planetary Science (MAPS) 2009.

Pont, F. et al. including **Mazeh, T.** and **Shporer, A.** *"The spin-orbit angle of the transiting hot Jupiter CoRoT-1b"*, accepted for publication in MNRAS, 2009.

Queloz, D. and 30 coauthors including **Mazeh, T.** *"The CoRoT-7 planetary system: two orbiting super-Earths"*, A&A. 506: 303, 2009.

Rauer, H., et al including **Mazeh, T.** and **Shporer, A.** *"Transiting exoplanets from the CoRoT space mission: VII. The "hot-Jupiter"-type planet CoRoT-5b",* A&A, 506: 281, 2009.

Reeves, J. N., et al, including **Kaspi, S**. *"A Compton-thick Wind in the High Luminosity Quasar, PDS 456"*, ApJ. 701: 493, 2009.

Rephaeli, Y., Arieli, Y., Persic, M. *"High-energy emission from the starburst galaxy NGC 253"* accepted for publication in MNRAS, 2009.

Sani, E., Lutz, D., Risaliti, G., **Netzer, H.,** Gallo, L. C., **Trakhtenbrot, B**., Sturm, E., and Boller, T. *"Enhanced Star Formation in Narrow Line Seyfert 1 AGN revealed by Spitzer",* accepted for publication in MNRAS, 2009.

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Winn J. N. et al including **Shporer, A.** and **Mazeh, T.** *"The Transit Light Curve Project. X. A Christmas Transit of HD 17156b"*, ApJ. 693: 794, 2009.

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PAPERS PRESENTED AT MEETINGS

Alonso, R., Aigrain, S., Pont, F., **Mazeh, T.,** The CoRoT Exoplanet Science Team. *"Searching for the secondary eclipse of CoRoT-Exo-2b and its transit timing variations",* Transiting Planets, Proceedings of the International Astronomical Union, IAU Symposium, Volume 253: 91, 2009.

Angeloni, R., Ciroi, S., Margio, P., **Contini, M.,** Di Mille, F., Rafanelli, P. *"MASYS. The AKARI spectroscopic survey of Symbiotic Stars in the Magellanic Clouds",* Proceedings of the Conference "AKARI, a light to illuminate the misty Universe", Fukutake Hall, The University of Tokyo, Japan, 16-19 February 2009.

Brosch, N. *"Quest for truly isolated galaxies",* to be published in "Galaxies in Isolation: Exploring Nature vs. Nurture", proceedings oft the Granada (Spain) conference, May 12-15, 2009. ASP Conference Series.

Dasyra, K. et al including **Netzer, H**. *"The Relation Between mid-infrared Narrow-line Widths And The Mass Of A Black Hole*". American Astronomical Society, Meeting #213, 437 02, 2009.

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Shporer, A., Bakos, G. A., **Mazeh, T**., Kovács, G., Sipöcz, B., *"The WHAT Project",* Transiting Planets, Proceedings of the International Astronomical Union, IAU Symposium, Volume 253: 331, 2009.

Spector O., and **Brosch N**., *"A Simple Isolation Criterion, Based on Redshift Space Mapping"*, Proceedings of the Conference "Galaxies in Isolation: Exploring Nature Versus Nurture", Instituto de Astrofisica de Andalucia, Granada, 12-15 May 2009.

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Polishook, D., "*Lightcurves for Shape Modeling Obtained at the Wise Observatory"*. Minor Planets Bulletin 36-3, p. 119-120, 2009.

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