

# Publications of the Infrared-Astronomy Group

## Max Planck Institute for Radio Astronomy

### 2012

#### Refereed and Invited Papers

*Apel, W.D. and 58 other authors, including Biermann, P. L.:* Experimental evidence for the sensitivity of the air-shower radio signal to the longitudinal shower development. *Physical Review D* **85** 071101 (2012).

*Baron, F., Kloppenborg, B., Monnier, J.:* Toward 5D image reconstruction for optical interferometry. *Optical and Infrared Interferometry III*. Deplancke, F., Rajagopal, J. K., Malbet, F. (Eds.). Proceedings of the SPIE, Volume 8445, id. 84451D-84451D-9 (2012). (Invited Paper)

*Berger, J. P., and 23 other authors, including: Hönig, S. and Tristram, K. R. W.:* Imaging the heart of astrophysical objects with optical long-baseline interferometry. *Astron. Astrophys. Rev.* **20**:53, (2012)

*Biermann, P.L., de Souza, V.:* Centaurus A: The extragalactic source of cosmic rays with energies above the knee. *Astrophys. J.* **746**, 72(2012).

*Caratti O Garatti, A., Garcia Lopez, R., Antonucci, S., Nisini, B., Giannini, T., Eisloffel, J., Ray, T. P., Lorenzetti, D., Cabrit, S.:* POISSON project. II. A multi-wavelength spectroscopic and photometric survey of young protostars in L 1641. *A&A* **538**, A64 (2012).

*Chen, L., Kreplin, A., Wang, Y., Weigelt, G., Hofmann, K.-H., Kraus, S., Schertl, D., Lagarde, S., Natta, A., Petrov, R., Robbe-Dubois, S., Tatulli, E.:* Near-infrared interferometric observation of the Herbig Ae star HD 144432 with VLT/AMBER. *A&A* **541**, A104 (2012).

*Chiavassa, A., Bigot, L., Kervella, P., Matter, A., Lopez, B., Collet, R., Magic, Z., Asplund, M.:* Three-dimensional interferometric, spectrometric, and planetary views of Procyon. *A&A* **540**, A5 (2012).

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*Domiciano de Souza, A., Hadjara, M., Vakili, F., Bendjoya, P., Millour, F., Abe, L., Carciofi, A. C., Kervella, P., Lagarde, S., Marconi, A., Monin, J.-L., Niccolini, G., Petrov, R. G., Weigelt, G.:* Beyond the diffraction limit of optical/IR interferometers. *A&A* **545**, A130 (2012).

*Gopal-Krishna, Biermann, P. L., Gergely, L. Á., Wiita, P. J.:* On the origin of X-shaped radio galaxies. *Research in Astronomy and Astrophysics* **12**, (2) 127-146 (2012).

*Grinin, V. P., Tambovtseva, L. V., Weigelt, G.:* Spectral line profiles changed by dust scattering in heavily obscured young stellar objects. *A&A* **544**, A45 (2012).

*Groh, Jose H., Hillier, John D., Madura, Thomas, I., Weigelt, Gerd:* On the influence of the companion star in Eta Carinae: 2D radiative transfer modelling of the ultraviolet and optical spectra. *Mon. Not. R. Astron. Soc.* **423**, 1623-1640 (2012).

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*Hönig, S. F., Kishimoto, M., Antonucci, R., Marconi, A., Prieto, M. A., Tristram, K., Weigelt, G.:* Parsec-scale dust emission from the polar region in the Type 2 nucleus of NGC 424. *ApJ* **755** Issue 2, 149 (2012).

*Hußmann, B., Stolte, A., Bradner, W., Gennaro, M., Lierman, A.:* The present-day mas function of the Quintuplet cluster based on proper motion membership. *A&A* **540**, A57 (2012).

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## Proceedings

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