

Publications of the Infrared-Astronomy Group

Max Planck Institute for Radio Astronomy

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Refereed and Invited Papers

Blöcker, T., Holweger, H., Freytag, B., Herwig, F., Ludwig, H.-G., Steffen, M., Lithium Depletion in the Sun: A Study of Mixing Based on Hydrodynamical Simulations, *Space Science Reviews*, **85**, 105-112 (1998)

Driebe, T., Schönberner, D., Blöcker, T., Herwig, F., The evolution of helium white dwarfs: I. The companion of the millisecond pulsar PSR J1012+5307, *Astronomy and Astrophysics*, **339**, 123-133 (1998)

Herwig, F., Schönberner, D., Blöcker, T., On the validity of the core-mass luminosity relation for TP-AGB stars with efficient dredge-up, *Astronomy and Astrophysics*, **340**, L43-L46 (1998)

Hofmann, K.-H., Scholz, M., Wood, P.R., Limb-darkening and Radii of M-type Mira Models, *Astronomy and Astrophysics*, **339**, 846-857 (1998)

Hofmann, K.-H., Scholz, M., Limb-darkening and Radii of Non-Mira M Giant Models, *Astronomy and Astrophysics*, **335**, 637-646 (1998)

Men'shchikov, A.B., Balega, Y., Osterbart, R., Weigelt, G., High-resolution bispectrum speckle interferometry and two-dimensional radiative transfer modeling of the Red Rectangle, *New Astronomy*, **3**, 601-617 (1998)

Schoeller, M.; Balega, I. I.; Balega, Y. Y.; Hofmann, K.-H.; Reinheimer, T.; Weigelt, G. Diffraction-limited speckle masking interferometry of binary stars with the SAO 6-m telescope, *Pis'ma Astron. Zh.*, **24**, 337-342 (1998)

Schoeller, M., Balega, Y., Hofmann, K.-H., Reinheimer, T., Weigelt, G., Diffraction-limited speckle masking interferometry of binary stars with the SAO 6-m telescope, *Astronomy Letters*, **24**, 283-288 (1998)

Weigelt, G., Balega, Y., Blöcker, T., Fleischer, A.J., Osterbart, R., Winters, J.M., 76 mas Speckle-Masking Interferometry of IRC+10216 with the SAO 6m Telescope: Evidence for a clumpy shell structure, *Astronomy and Astrophysics*, **333**, L51-L54 (1998)

Wittkowski, M., Langer, N., Weigelt, G., Diffraction-limited speckle-masking interferometry of the red supergiant VY CMa, *Astronomy and Astrophysics*, **340**, L39-L42 (1998)

Wittkowski, M., Balega, Y., Beckert, T., Duschl, W.J., Hofmann, K.-H., Weigelt, G., Diffraction-limited 76 mas Speckle Masking Observations of the Core of NGC 1068 with the SAO 6m Telescope, *Astronomy and Astrophysics*, **329**, L45-L48 (1998)

Proceedings

Angel, J.R.P., Hill, J.M., Strittmatter, P.A., Salinari, P., Weigelt, G., Interferometry with the Large Binocular Telescope, *Astronomical Interferometry*, SPIE 3350, Reasenberg, R.D., (ed.), Bellingham, 881-889 (1998)

Blöcker, T., Hofmann, K.-H., Lichtenthäler, J., Osterbart, R., Weigelt, G., Balega, Y., The hypergiant IRC+10420: High-resolution speckle masking interferometry and dust-shell modelling, *Astronomische Gesellschaft Meeting Abstracts (AGM 14, P34)*, Annual Scientific Meeting of the Astronomische Gesellschaft, Sep 14-19, Heidelberg, Germany (Abstract) (1998)

Driebe, T., Blöcker, T., Herwig, F., Schönberner, D., Diffusive Overshooting in Hot Bottom Burning AGB Models, *Astronomische Gesellschaft Meeting Abstracts (AGM 14, P30)*, Annual Scientific Meeting of the Astronomische Gesellschaft, Sep 14-19, Heidelberg, Germany (Abstract) (1998)

Gauger, A., Winters, J.M., Fleischer, A., Keady, J., Temporal Variations of CO Infrared Lines in Cool Star Winds, *Cyclical Variability in Stellar Winds*, Kaper, L., Fullerton, A. (eds.), Springer, Berlin, 309 (1998)

Gauger, A., Irrgang, P., Osterbart, R., Schniggenberg, G., Weigelt, G., Balega, Y., Speckle Masking Imaging and Radiative Transfer Modeling of the Oxygen-Rich Dust Shells of AFGL 2290 and CIT 3, Astronomische Gesellschaft Meeting Abstracts (AGM 14, P33), Annual Scientific Meeting of the Astronomische Gesellschaft, Sep 14-19, Heidelberg, Germany (Abstract) (1998)

Hofmann, K.-H., Petrov, R.G., Malbet, F., Richichi, A. Amber: the near infrared - red focal instrument for the VLTI, Astronomische Gesellschaft Meeting Abstracts (AGM 14, L06), Annual Scientific Meeting of the Astronomische Gesellschaft, Sep 14-19, Heidelberg, Germany (Abstract) (1998)

Hofmann, K.-H., Weigelt, G., Balega, Y., Scholz, M., Diffraction-limited Speckle Masking Observations of the Mira Variables R Cas and R Leo with the 6 m SAO Telescope, Astronomische Gesellschaft Meeting Abstracts (AGM 14, P52), Annual Scientific Meeting of the Astronomische Gesellschaft, Sep 14-19, Heidelberg, Germany (Abstract) (1998)

Hofmann, K.-H., Balega, Y., Scholz, M., Weigelt, G., Diffraction-limited Speckle Masking Observations of the Mira Variables R Cas and R Leo with the 6 m SAO Telescope, Asymptotic Giant Branch Stars, IAU Symp. 191 Aug 27th - Sep 1st, Montpellier, France (Abstract) (1998)

Irrgang, P., Balega, Y., Gauger, A., Osterbart, R., Schniggenberg, G., Weigelt, G., Speckle Masking Imaging and Radiative Transfer Modeling of the Oxygen-Rich Dust Shells of AFGL 2290 and CIT 3, Asymptotic Giant Branch Stars, IAU Symp. 191 Aug 27th - Sep 1st, Montpellier, France (Abstract) (1998)

Osterbart, R., Blöcker, T., Menshchikov, A., Weigelt, G., Balega, Y., Winters, J.M., Diffraction-limited Bispectrum Speckle Interferometry of the Carbon Star IRC+10216 with the SAO 6m Telescope, Astronomische Gesellschaft Meeting Abstracts (AGM 14, P32), Annual Scientific Meeting of the Astronomische Gesellschaft, Sep 14-19, Heidelberg, Germany (Abstract) (1998)

Osterbart, R., Menshchikov, A., Weigelt, G., Balega, Y., Langer, N., High-resolution Speckle Imaging and Radiative Transfer Modeling of the Red Rectangle, Astronomische Gesellschaft Meeting Abstracts (AGM 14, P31), Annual Scientific Meeting of the Astronomische Gesellschaft, Sep 14-19, Heidelberg, Germany (Abstract) (1998)

Petrov, R.G., Malbet, F., Richichi, A., Hofmann, K.-H. AMBER, the near-infrared/red VLTI focal instrument, The ESO Messenger, **92**,11-14 (1998)

Quirrenbach, A., Coude du Foresto, V., Daigne, G., Hofmann, K.-H., Hofmann, R., Lattanzi, M., Osterbart, R., Le Poole, R.S., Queloz, D., Vakili, F., PRIMA: study for a dual-beam instrument for the VLT interferometer, Astronomical Interferometry, SPIE 3350, Reasenberg, R.D., (ed.), Bellingham, 807-817 (1998)

Stolzmann, W., Blöcker, T., Schönberner, D., An Equation-of-State Formalism for the Interior of Very Low Mass stars and Brown Dwarfs, Very Low-Mass Stars and Brown Dwarfs in Stellar Clusters and Associations, May 11th - 15th, 1998, Los Cancajos, La Palma, Spain (Abstract) (1998)

Stolzmann, W., Blöcker, T., The Effects of Exchange and Correlation for Astrophysical Quantities, Strongly Coupled Coulomb Systems, Kalman, G.J., Blagoev, K.B., Rommel, J.M. (eds.), Plenum Press, New York, 273-278 (1998)

Wittkowski, M., Balega, Y., Beckert, T., Duschl, W.J., Hofmann, K.-H., Weigelt, G., Diffraction-limited IR speckle masking observations of the central regions of Seyfert galaxies, The Central Regions of the Galaxy and Galaxies, IAU Symp. No. 184, Yoshiaki Sofue (ed.), Kluwer, Dordrecht, 103-104 (1998)

Zinnecker, H., Hasinger, G., Storm, J., Weigelt, G., Interferometry with the Large Binocular Telescope, Astronomische Gesellschaft Meeting Abstracts (AGM 14, L07), Annual Scientific Meeting of the Astronomische Gesellschaft, Sep 14-19, Heidelberg, Germany (Abstract) (1998)