

Publications of the Infrared-Astronomy Group

Max Planck Institute for Radio Astronomy

2000

Refereed and Invited Papers

- Blöcker, T., Herwig, F., Driebe T.* AGB evolution with overshoot: hot bottom burning and dredge up, *Mem. Soc. Astron. Ital.*, **71**, 711-718 (2000)
- Helling, C., Winters, J.M., Sedlmayr, E.*, Circumstellar dust shells around long-period variables: VII. The role of molecular opacities, *A&A*, **358**, 651-664 (2000)
- Herwig, F., Blöcker, T., Driebe T.*, TP-AGB evolution with overshoot for low-mass stars as function of metallicity, *Mem. Soc. Astron. Ital.*, **71**, 745-752 (2000)
- Hofmann, K.-H., Balega, Y.Y., Scholz, M., Weigelt, G.*, Multi-wavelength bispectrum speckle interferometry of R Cas and comparison of the observations with Mira star models, *A&A*, **353**, 1016-1028 (2000)
- Ikhsanov, N.R.*, Signs of a dead disk in AE Aquarii, *A&A*, **358**, 201-207 (2000)
- Osterbart, R., Balega, Y., Blöcker, T., Menshchikov, A.B., Weigelt, G.*, The dynamical evolution of the dust shell of IRC+10216, *Mem. Soc. Astron. Ital.*, **71**, 701-708 (2000)
- Osterbart, R., Balega, Y., Blöcker, T., Menshchikov, A.B., Weigelt, G.*, The dynamical evolution of the fragmented, bipolar dust shell around the carbon star IRC+10216, *A&A*, **357**, 169-176 (2000)
- Schertl, D., Balega, Y., Hannemann, T., Hofmann, K.-H., Preibisch, T., Weigelt, G.*, Diffraction-limited bispectrum speckle interferometry and speckle polarimetry of the young bipolar outflow source S140 IRS1, *A&A*, **361**, L29-L32 (2000)
- Schönberner, D., Driebe, T., Blöcker, T.*, 2000, The evolution of helium white dwarfs: III. On the ages of millisecond pulsar systems, *A&A*, **356**, 929-934
- Stolzmann, W., Blöcker, T.*, Thermodynamical properties of stellar matter: II. Internal energy, temperature and density exponents, and specific heats for stellar interiors, *A&A*, **361**, 1152-1168 (2000)
- Tokovinin, A.A., Balega, Y.Y., Hofmann, K.-H., Weigelt, G.*, The orbit of the nearby low-mass binary Gliese 600, *Astronomy Letters*, **26**, 668-671 (2000)
- Winters, J.M., Le Bertre, T., Jeong, K.S., Helling, C., Sedlmayr, E.*, A systematic investigation of the mass-loss mechanism in dust forming long-period variable stars, *A&A*, **361**, 641-659 (2000)
- Winters, J.M., Keady, J.J., Gauger, A., Sada, P.V.*, Circumstellar dust shells around long-period variables: VIII. CO infrared line profiles from dynamical models for C-stars, *A&A*, **359**, 651-662 (2000)

Proceedings

- Balega, Yu. Yu.; Weigelt, G.; Preibisch, T.; Zinnecker, H.*: Bispectrum speckle interferometry of the Orion Trapezium stars: detection of a close (33 mas) companion of θ 1 Ori C, in: *Magnetic Fields of Chemically Peculiar and Related Stars*, Proceedings of the International Meeting held in Special Astrophysical Observatory of Russian AS, p.68-72 (2000)
- Blöcker, T., Hofmann, K.-H., Przygodda, F., Weigelt, G.*, Computer simulations of interferometric imaging with the VLT interferometer and the AMBER instrument, *Interferometry in Optical Astronomy*, SPIE Conf. Vol. 4006, Lena, P. J., Quirrenbach, A. (eds.), 174-183 (2000)
- Blöcker, T., Hofmann, K.-H., Przygodda, F., Weigelt, G.*, The VLT Interferometer and its AMBER Instrument: Simulations of Interferometric Imaging in the Wide-Field Mode, *Astronomische Gesellschaft Meeting Abstracts (AGM 17, P18) Dynamic Instabilities and Stability in the Universe*, Annual Scientific Meeting of the Astronomische Gesellschaft, Sep 18-23, Bremen, Germany (Abstract) (2000)
- Driebe, T., Blöcker, T., Schönberner, D.*, The evolution of helium white dwarfs: Applications to millisecond pulsars, *Pulsar Astronomy - 2000 and Beyond*, IAU Coll. 177, Kramer, M., Wex, N., Wielebinski, R. (eds.), ASP Conference Series 202, 635 (2000)

- Driebe, T., Blöcker, T.,* Stellar Evolution with Rotation: Mixing Processes in AGB Stars, *Astronomische Gesellschaft Meeting Abstracts (AGM 17, P16) Dynamic Instabilities and Stability in the Universe, Annual Scientific Meeting of the Astronomische Gesellschaft, Sep 18-23, 2000, Bremen, Germany (Abstract) (2000)*
- Duvert, G., Mouillet, D., Berio, P., Forveille, T., Aristidi, E., Hofmann, K.-H., Mege, P.,* AMBER data simulator, *Interferometry in Optical Astronomy, SPIE Conf. Vol. 4006, Lena, P. J., Quirrenbach, A. (eds.), 217-223 (2000)*
- Herwig, F., Blöcker, T.,* Overshoot in Giant Stars, *35th Liège International Astrophysics Colloquium, The Galactic Halo: From Globular Clusters to Field Stars, Noels, A., Magain, P., Caro, D., Jehin, E., Parmentier, G., Thoul, A. (eds.), Universite de Liège, Belgium, 59-65 (2000)*
- Hofmann, K.-H., Beckmann, U., Blöcker, T., Coude de Foresto, V., Lacasse, M., Morel, S., Pras, B., Ruilier, C., Schertl, D., Scholz, M., Traub, W., Weigelt, G., Wittkowski, M., Yudin, B.,* Observations of Mira stars with the IOTA/FLUOR interferometer and comparison with Mira star models, *Interferometry in Optical Astronomy, SPIE Conf. Vol. 4006, Lena, P. J., Quirrenbach, A. (eds.), 688-695 (2000)*
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- Mouillet, D., Duvert, G., Forveille, T., Hofmann, K.-H., Malbet, F., Sacchettini, M., Schertl, D.,* AMBER data structure, processing, and calibration, *Interferometry in Optical Astronomy, SPIE Conf. Vol. 4006, Lena, P. J., Quirrenbach, A. (eds.), 261-268 (2000)*
- Petrov, R., Malbet, F., Richichi, A., Hofmann, K.-H., Mourard, D., Agabi, K., Antonelli, P., Aristidi, E., Baffa, C., Beckmann, U., Berio, P., Bresson, Y., Cassaing, F., Chelli, A., Dress, A., Dugue, M., Duvert, G., Forveille, T., Fossat, E., Gennari, S., Geng, M., Glentzlin, A., Kamm, D., Lagarde, S., LeCoarer, E., LeContel, D., Le Contel, J.-M., Lisi, F., Lopez, B., Martinot-Lagarde, G., Merkania, D., Monin, J.-L., Mouillet, D., Perrier-Bellet, C., Puget, P., Rabbia, Y., Rebattu, S., Renaud, F., Robbes-Dubois, S., Rousselet-Perraut, K., Sacchettini, M., Schöller, M., Tallon-Bosc, I., Weigelt, G.,* AMBER: the near-IR focal instrument for the VLT1, *Interferometry in Optical Astronomy, SPIE Conf. Vol. 4006, Lena, P. J., Quirrenbach, A. (eds.), 68-79 (2000)*
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- Preibisch, T., Zinnecker, H., Weigelt, G.,* Multiplicity of the young O- and B-type stars in the Orion nebula cluster, *The formation of binary stars, IAU Symp. 200, 106-108 (2000)*
- Richichi, A., Blöcker, T., Foy, R., Fraix-Burnet, D., Lopez, B., Malbet, F., Stee, P., Von Der Lühe, O., Weigelt, G.,* Science opportunities with AMBER, the near-IR VLT1 instrument, *Interferometry in Optical Astronomy, SPIE Conf. Vol. 4006, Lena, P. J., Quirrenbach, A. (eds.), 80-91 (2000)*
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- Wittkowski, M.,* Computer simulations of interferometric studies of stellar surface structures with NPO1, *BAAS Vol. 32 No. 2, 684 (Abstract) (2000)*