

Publications of the Infrared-Astronomy Group

Max Planck Institute for Radio Astronomy

1999

Refereed and Invited Papers

- Balega, I.I., Balega, Y.Y., Hofmann, K.-H., Tokovinin, A.A., Weigelt, G.*, Parameters of four multiple systems from speckle interferometry, *Astronomy Letters*, **25**, 797-801 (1999)
- Blöcker, T., Balega, Y., Hofmann, K.-H., Lichtenthäler, J., Osterbart, R., Weigelt, G.*, The rapidly evolving hypergiant IRC+10420: High-resolution bispectrum speckle interferometry and dust-shell modelling, *A&A*, **348**, 805-814 (1999)
- Driebe, T., Blöcker, T., Schönberner, D., Herwig, F.*, The evolution of helium white dwarfs: II. Thermal instabilities, *A&A*, **350**, 89-100 (1999)
- Gauger, A., Balega, Y., Irrgang, P., Osterbart, R., Weigelt, G.*, High-resolution speckle masking interferometry and radiative transfer modeling of the oxygen-rich AGB star AFGL 2290, *A&A*, **346**, 505-519 (1999)
- Herwig, F., Blöcker, T., Langer N., Driebe, T.*, On the formation of hydrogen-deficient post-AGB stars, *A&A*, **349**, L5-L8 (1999)
- Men'shchikov, A.B., Henning T., Fischer, O.*, Self-consistent model of the dusty torus around HL Tau, *ApJ*, **519**, 257-278 (1999)
- Preibisch, T., Balega, Y.Y., Hofmann, K.-H., Weigelt, G., Zinnecker, H.*, Multiplicity of the massive stars in the Orion Nebula cluster, *NAst*, **4**, 531-542 (1999)
- Preibisch, T., Zinnecker, H.*, The history of low-mass star formation in the upper Scorpius OB association, *AJ*, **117**, 2381-2397 (1999)
- Preibisch, T.*, An extremely X-ray luminous proto-Herbig Ae/Be star in the Serpens star forming region, *A&A*, **345**, 583-591 (1999)
- Scholz, R.-D., Brunzendorf, J., Ivanov, G., Kharchenko, N., Lasker, B., Meusinger, H., Preibisch, T., Schilbach, E., Zinnecker, H.*, IC 348 proper motion study from digitised Schmidt plates., *A&AS*, **137**, 305-321 (1999)
- Stolzmann, W., Blöcker, T.*, A semirelativistic equation of state for stellar interiors, *Contr. Plasma Phys.*, **39**, 105-108 (1999)
- Weigelt, G., Balega, Y., Preibisch, T., Schertl, D., Schöller, M., Zinnecker, H.*, Bispectrum speckle interferometry of the Orion trapezium stars: Detection of a close (33 mas) companion of Theta¹ Ori C, *A&A*, **347**, L15-L18 (1999)
- Wittkowski, M. Duschl, W.J.*, Determination of the Mass Distribution in Galactic Centers, *NAst*, **4**, 543-555 (1999)

Proceedings

- Blöcker, T.*, Structure and Evolution of AGB Stars, Asymptotic Giant Branch Stars, *IAU Symp. 191*, Le Bertre, T., Lebre, A., Waelkens, C. (eds.), *Astr. Soc. Pacific*, 21-30 (1999)
- Blöcker, T., Balega, Y.Y., Men'shchikov, A.B., Osterbart, R., Weigelt, G.*, The evolving dust envelope of IRC+10216, 2nd Austrian ISO workshop, Atmospheres of M, S and C Giants: Models and Observations, May 27th - 29th, 1999. Vienna, Austria. (Abstract) (1999)
- Blöcker, T., Driebe T., Herwig, F.*, AGB Evolution with Overshoot: Hot Bottom Burning vs. Dredge-Up, *Astronomische Gesellschaft Meeting Abstracts (AGM 15, P25)* New Astrophysical Horizons, Annual Scientific Meeting of the Astronomische Gesellschaft, Sep 21-25, Göttingen, Germany (Abstract) (1999)
- Blöcker, T., Hofmann, K.-H., Weigelt, G., Balega, Y.*, Bispectrum speckle interferometry observations and radiative transfer models of the red supergiant NML Cyg, *Astronomische Gesellschaft Meeting Abstracts (AGM 15, P26)*, New Astrophysical Horizons, Annual Scientific Meeting of the Astronomische Gesellschaft, Sep 21-25, Göttingen, Germany (Abstract) (1999)

Blöcker, T., Structure and Evolution of AGB Stars, Asymptotic Giant Branch Stars, IAU Symp. 191 Aug 27th - Sep 1st, Montpellier, France (Abstract) (1998)

Driebe, T., Schönberner, D., Blöcker T., Herwig F., Evolutionary Models of White Dwarfs with Helium Cores, 11th European Workshop on White Dwarfs, ASP Conf. Series 169, Solheim, J.-E., Meistas, E.G. (eds.), 394-39 (1999)

Driebe, T., Blöcker, T., Stellar evolution for low and intermediate-mass stars with rotation and overshoot, Astronomische Gesellschaft Meeting Abstracts (AGM 15, P19), New Astrophysical Horizons, Annual Scientific Meeting of the Astronomische Gesellschaft, Sep 21-25, 1999, Göttingen, Germany (Abstract) (1999)

Driebe, T., Blöcker, T., Herwig, F., Schönberner, D., Diffusive Overshooting in Hot Bottom Burning AGB Models, Asymptotic Giant Branch Stars, IAU Symp. 191 Aug 27th - Sep 1st, Montpellier, France (Abstract) (1998)

Herwig, F., Blöcker, T., Schönberner, D., The Role of Convective Boundaries, Asymptotic Giant Branch Stars, IAU Symp. 191, Le Bertre, T., Lebre, A., Waelkens, C. (eds.), Astr. Soc. Pacific, 41-46 (1999)

Herwig, F., Blöcker, T., Schönberner, D., The Role of Convective Boundaries, Asymptotic Giant Branch Stars, IAU Symp. 191 Aug 27th - Sep 1st, Montpellier, France (Abstract) (1998)

Herwig, F., Schönberner, D., Blöcker, T., Violation of the Core Mass - Luminosity Relation for AGB models which experience the third dredge-up, Asymptotic Giant Branch Stars, IAU Symp. 191 Aug 27th - Sep 1st, Montpellier, France (Abstract) (1998)

Osterbart, R., Blöcker, T., Weigelt, G., Balega, Y., Men'shchikov, A.B., The dynamical evolution of the fragmented, bipolar dust shell around the carbon star IRC+10216, Astronomische Gesellschaft Meeting Abstracts (AGM 15, P27) New Astrophysical Horizons, Annual Scientific Meeting of the Astronomische Gesellschaft, Sep 21-25, Göttingen, Germany (Abstract) (1999)

Weigelt, G., Blöcker, T., Hofmann, K.-H., Osterbart, R., Balega, Y., Fleischer, A.J., Winters, J.M., Diffraction-limited 76 mas Speckle-Masking Interferometry of the Carbon Star IRC+10216 and related AGB Objects with the SAO 6 m Telescope, Asymptotic Giant Branch Stars, IAU Symp. 191, Le Bertre, T., Lebre, A., Waelkens, C. (eds.), Astr. Soc. Pacific, 273-278 (1999)

Wittkowski, M., Balega, Y., Hofmann, K.-H., Weigelt G., Bispectrum speckle interferometry of the nucleus of NGC 1068, Astronomische Gesellschaft Meeting Abstracts (AGM 15, P83) New Astrophysical Horizons, Annual Scientific Meeting of the Astronomische Gesellschaft, Sep 21-25, Göttingen, Germany (Abstract) (1999)