

# Publications of the Infrared-Astronomy Group

## Max Planck Institute for Radio Astronomy

### 2001

#### Refereed and Invited Papers

- Balega, I.I., Balega, Y.Y., Hofmann, K.-H., Weigelt, G.*, Infrared bispectrum speckle interferometry of 11 binaries using a bispectrum analysis, *Astronomy Letters*, **27**, 95-98 (2001)
- Blöcker, T., Balega, Y., Hofmann, K.-H., Weigelt, G.*, Bispectrum speckle interferometry observations and radiative transfer modelling of the red supergiant NML Cyg: Multiple dust-shell structures evidencing previous superwind phases, *A&A*, **369**, 142-154 (2001)
- Blöcker, T.*, Evolution on the AGB and beyond: On the formation of hydrogen-deficient post-AGB stars, *Ap&SS*, **275**, 1-14 (2001)
- Helling, C., Winters, J.M.*, Circumstellar dust shells around long-period variables: IX. Molecular layers resulting from shocked carbon-rich atmospheres, *A&A*, **366**, 229-240 (2001)
- Hofmann, K.-H., Balega, Y.Y., Blöcker, T., Weigelt, G.*, A multi-wavelength study of the oxygen-rich AGB star CIT 3: Bispectrum speckle interferometry and dust-shell modelling, *A&A*, **379**, 529-539 (2001)
- Hofmann, K.-H., Balega, Y.Y., Scholz, M., Weigelt, G.*, Multi-wavelength bispectrum speckle interferometry of R Leo and comparison with Mira star models, *A&A*, **376**, 518-531 (2001)
- Ikhsanov, N.R.*, On the state of low luminous accreting neutron stars, *A&A*, **375**, 944-449 (2001)
- Ikhsanov, N.R.*, Can the 33s pulsations observed from AE Aquarii be explained in terms of accretion onto the white dwarf surface?, *A&A*, **374**, 1030-1034 (2001)
- Ikhsanov, N.R., Larionov, V.M., Beskrovnaya, N.G.*, On the accretion flow geometry in A0535+26, *A&A*, **372**, 227-232 (2001)
- Ikhsanov, N.R.*, On the duration of the subsonic propeller state of neutron stars in wind-fed mass-exchange close binary systems, *A&A*, **368**, L5-L7 (2001)
- Ikhsanov, N.R.*, On the origin of quiescent X-ray emission from A0535+26, *A&A*, **367**, 549-556 (2001)
- Kenworthy, M., Hofmann, K.-H., Close, L., Hinz, P., Mamajek, E., Schertl, D., Weigelt, G., Angel, R., Balega, Y., Hinz, J., Rieke, G.*, Gliese 569B: A young multiple brown dwarf system?, *ApJ Letters*, **554**, L67-L70 (2001)
- Le Bertre, T., Matsuura, M., Winters, J.M., Murakami, H., Yamamura, I., Freund, M., Tanaka, M.*, Galactic mass-losing AGB stars probed with the IRTS. I, *A&A*, **376**, 997-1010 (2001)
- Markoff, S., Falcke, H., Yuan, F., Biermann, P.L.*, The nature of the 10 kilosecond X-ray flare in Sgr A\*, *A&A*, **379**, L13-L16 (2001)
- Men'shchikov, A., Balega, Y., Blöcker, T., Osterbart, R., and Weigelt, G.*, Structure and physical properties of the rapidly evolving dusty envelope of IRC+10216 reconstructed by detailed two-dimensional radiative transfer modeling, *A&A*, **368**, 497-526(2001)
- Nadzhip, A.E., Tatarnikov, A.M., Shenavrin, V.I., Weigelt, G., Yudin, B.F.*, Infrared observations of the star R Cas, *Astronomy Letters*, **27**, 324-327 (2001)
- Ohnaka, K., Balega, Y.Y., Blöcker, T., Efimov, Y.S., Hofmann, K.-H., Ikhsanov, N.R., Shenavrin, V.I., Weigelt, G., Yudin, B.F.*, Diffraction-limited speckle interferometry and modeling of the circumstellar envelope of R CrB at maximum and minimum light, *A&A*, **380**, 212-220 (2001)
- Preibisch, T., Balega, Y., Schertl, D., Smith, M.D., Weigelt, G.*, High-resolution near-infrared study of the deeply embedded young stellar object S140 IRS 3, *A&A*, **378**, 539-545 (2001)
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- Preibisch, T., Zinnecker, H.*, Deep CHANDRA X-ray observatory imaging study of the very young stellar cluster IC 348, *AJ*, **122**, 866-875 (2001)
- Preibisch, T., Guenther, E., and Zinnecker, H.*, A large spectroscopic survey for young low-mass members of the Upper Scorpius OB Association, *AJ*, **121**, 1040-1049 (2001)

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*Weigelt, G., Yudin, B.*, The dust envelope of R Cas, *Astronomy Reports*, **45**, 510-516 (2001)

*Yuan, F.*, Luminous hot accretion disks, *MNRAS*, **324**, 119-127 (2001)

*Yudin, B., Balega, Y., Blöcker, T., Hofmann, K.-H., Schertl, D., Weigelt, G.*, Speckle interferometry and radiative transfer modelling of the Wolf-Rayet star WR 118, *A&A*, **379**, 229-234 (2001)

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*Blöcker, T., Driebe, T.*, Stellar evolution with rotation: Through the AGB towards the stage of white dwarfs, *Astronomische Gesellschaft Abstract Series (AGM 18, P98)* Five Days of Creation: Astronomy with Large Telescopes from Ground and Space, Joint European and National Meeting JENAM 2001 of the European Astronomical Society and the Astronomische Gesellschaft, Sep 10-15, 2001, Munich, Germany (Abstract) (2001)

*Hofmann, K.-H., Blöcker, T., Weigelt, G., Balega, Y.*, A multiwavelength study of the AGB star CIT 3: Bispectrum speckle interferometry and dust-shell modelling, *Astronomische Gesellschaft Abstract Series (AGM 18, P99)* Five Days of Creation: Astronomy with Large Telescopes from Ground and Space, Joint European and National Meeting JENAM 2001 of the European Astronomical Society and the Astronomische Gesellschaft, Sep 10-15, 2001, Munich, Germany (Abstract) (2001)

*Ikhsanov, N.R.*, The magnetic field configuration of accretion disks around black holes, *Black holes in binaries and galactic nuclei*, Kaper, L., van den Heuvel, E., Woudt P. A. (eds.), Springer, 222-223 (2001)

*Ikhsanov, N.R., Beskrovnaya, N.G.*, Evidence for the spin-powered pulsar-like white dwarf in AE Aquarii, *Astronomische Gesellschaft Abstract Series (AGM 18, P102)* Five Days of Creation: Astronomy with Large Telescopes from Ground and Space, Joint European and National Meeting JENAM 2001 of the European Astronomical Society and the Astronomische Gesellschaft, Sep 10-15, 2001, Munich, Germany (Abstract) (2001)

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*Preibisch, T., Schertl, D., Weigelt, G., Balega, Y., Smith, M.D.*, High-resolution near-infrared study of the deeply embedded young stellar object S140 IRS 3, *Astronomische Gesellschaft Abstract Series (AGM 18, P22)* Five Days of Creation: Astronomy with Large Telescopes from Ground and Space, Joint European and National Meeting JENAM 2001 of the European Astronomical Society and the Astronomische Gesellschaft, Sep. 10-15, 2001, Munich, Germany (Abstract) (2001)

*Preibisch, T., Zinnecker, H.*, Triggered star formation in the Scorpius-Centaurus OB Association (Sco OB2), Third "Three-Islands" Euroconference From Darkness to Light: Origin and Early Evolution of Young Stellar Clusters; Montmerle, T., Andre, Ph. (eds.), ASP Conference Series, 243, p.791 (2001)

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*Winters, J.M., Blöcker, T., Hofmann, K.-H., Weigelt, G.*, Confronting the evolving clumpy shell structure of IRC+10216 with time dependent dust shell models, Astronomische Gesellschaft Abstract Series (AGM 18, P96) Five Days of Creation: Astronomy with Large Telescopes from Ground and Space, Joint European and National Meeting JENAM 2001 of the European Astronomical Society and the Astronomische Gesellschaft, Sep 10-15, 2001, Munich, Germany (Abstract) (2001)

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