

## Bonn

### Argelander–Institut für Astronomie, Universität Bonn

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#### 0 Allgemeines

Am 3.1.2007 wurde das Argelander-Institut für Astronomie zum ‘Ort im Land der Ideen’ ausgezeichnet, wobei vor allem der neu geschaffene Studiengang Master of Science in Astrophysik ausschlaggebend war. Die Verleihung der Auszeichnung wurde durch eine öffentliche Veranstaltung begleitet, in der über die Studienmöglichkeiten in der Astronomie und die Forschungsaktivitäten am Institut informiert wurde und Besucher eigenständig Beobachtungsdaten am Rechner auswerten konnten.

Nach zwei erfolglosen Versuchen, die Nachfolge der Professur von Klaas de Boer, der zum 28.2.2007 in den Ruhestand trat, im Bereich optischer Astronomie zu besetzen, wurde Ende 2007 die Stelle sehr breit neu ausgeschrieben; das Berufungsverfahren läuft zur Zeit. Bodo Ziegler (Göttingen) konnte für die Professorenvertretung im Zeitraum 1.4.–31.7 und 1.10.–30.11. gewonnen werden, bevor er dann eine Stelle bei der ESO annahm. Seit dem 1.12. wird die Professur von Jürgen Kerp vertreten. Im Gegensatz dazu war das Berufungsverfahren für die W2-Professur in der Astrophysik erfolgreich; Cristiano Porciani wird die Stelle zum 1.7.2008 antreten. Mit Olaf Wucknitz konnte auch eine weitere Emmy-Noether Gruppe am AIfA angesiedelt werden, und drei neue Humboldt-Stipendiaten kamen in 2007 ans Institut.

Wissenschaftler des AIfA sind in eine große Zahl von Kooperationen eingebunden. Beispielshaft dafür sind 4 Teilprojekte des Köln-Bonner Sonderforschungsbereich 494 “Terahertz-Spektroskopie”, der Ende 2007 ausgelaufen ist, Beteiligungen an drei ortsübergreifenden Teilprojekten im Transregionalen Sonderforschungsbereich TR33 “The Dark Universe” (gemeinsam mit Kollegen aus Heidelberg und München/Garching), neun verschiedene Projekte im DFG-Schwerpunktprogramm 1177 “Galaxienentwicklung” und der Beginn des Marie Curie RTN-Netzwerks “DUEL”. Zusammen mit weiteren Kooperationen – erwähnt werden sollen hier etwa das Rhine Stellar Dynamics Network, die Ansiedlung des deutschen ALMA Regional Centers und eines der OmegaCAM Datenzentren – und weiteren Einzelprojekten war das AIfA bei der Drittmittelinwerbung sehr erfolgreich. Von drei Rufen an Institutssangehörige (Philipp Richter an die Universität Potsdam, Pavel Kroupa an die University of Cardiff und Peter Schneider an die *École Polytechnique Federale* in Lausanne) konnten zwei erfolgreich abgewehrt werden.

In der zweiten Runde der Exzellenzinitiative wurde die Bonn-Cologne Graduate School in Physics and Astronomy ausgewählt, an der das AIfA zentral beteiligt ist. Zusammen mit der Bonn International Graduate School und der International Max-Planck Research

School sowie dem Studiengang Master of Astrophysics ist Bonn im Wettbewerb um herausragende Doktoranden damit gut gerüstet.

Das Observatorium Hoher List wurde verstärkt in den Ausbildungsbetrieb einbezogen, indem ein Versuch des Fortgeschrittenen-Praktikums im Rahmen des Langzeitprojekts HO-LIGRAIL eingerichtet wurde. Umfangreiche Pläne für eine Fortentwicklung des Observatoriums wurden in die Wege geleitet, zu denen die Einrichtung eines Astronomie-Museums gehört, sowie verstärkte Kooperation mit dem lokalen Fremdenverkehrsverband, um die Zukunft des Observatoriums langfristig zu sichern. Mehrere ‘Bonn-Shutters’ für internationale Großteleskope wurden geliefert bzw. neu bestellt. Michael Geffert hat zudem die Aufgabe des Koordinators der deutschen Öffentlichkeitsarbeit zum internationalen Jahr der Astronomie 2009 übernommen.

Im Rahmen von Drittmittel-Projekten, aber vor allem durch die Bewilligung eines HBFAG-Antrags, konnte die Hardware-Ausstattung des Instituts vergrößert bzw. modernisiert werden. Insgesamt ist das AIfA daher hervorragend für die laufenden bzw. bald beginnenden Beobachtungsprojekte wie der APEX-SZ Survey, die KIDS, VIKING und PanSTARRS-1 Surveys sowie umfangreiche Simulationsprojekte vorbereitet.

## 1 Personal und Ausstattung

### 1.1 Personalstand

#### *Professoren*

F. Bertoldi, K.S. de Boer (bis 28.2), J. Kerp (Vertretung 1.12 –) U. Klein, P. Kroupa, P. Schneider (Geschäftsführer) B. Ziegler (Vertretung 1.4 – 31.7 und 1.10 – 30.11)

#### *Emeritierte Professoren*

P.W. Blum, P. Brosche, H.J. Fahr, E. Geyer, W. Kundt, U. Mebold, G. Pröll, M. Römer, W. Seggewiß, H. Volland

#### *Wissenschaftliche Mitarbeiter:*

Dr. M. Albrecht, Dr. K. moni Basu, Dr. H. Baumgardt, Dr. P. Becker, Dr. F. Bensch, Dr. M. Bird, Dr. J. Chen, Dr. O. Cordes, Dr. O. Czoske, Dr. T. Decressin, Dr. R. Dutta-Roy, Dr. T. Erben, Dr. D. Garcia-Appadoo, Dr. M. Geffert, Dr. J. Geisbüsch, Dr. A. Halkola, Dr. P. Heraudeau, Dr. M. Hettterscheidt, Dr. M. Hilker, S. Hochgürtel, Dr. P. Hudelot, Dr. D. Hudson, Dr. J. Jorgensen, Dr. G. Józsa, Dr. P. Kalberla, Dr. T. Kämpf, Priv.-Doz. Dr. J. Kerp, Dr. M. Kilbinger, Dr. K. Knudsen, Dipl. Phys. G. Lay, Dr. G. Li, Prof. Y. Mellier (Humboldt-Preisträger), Dr. R. Mittal, Dr. U. Naß, Dr. P. Papadopoulos, Dr. J. Pineda Galvez, Dr. K. Reif, Dr. T. Reiprich (DFG/Emmy-Noether), Dr. P. Richter (DFG/Emmy-Noether), Dr. M. Röllig, Dr. R. Schaaf, Dr. M. Schirmer Dr. E. Semboloni, Dr. M. Siewert, Dr. P. Simon, Dr. L. Subr (Humboldt-fellow), Dr. S. Suyu, Dr. I. Tereno, Dipl. Phys. D. Verscharen, Dr. C. Vlahakis, Dr. W. Vlemmings, Dr. P. Watts, Dr. O. Wucknitz (DFG/Emmy-Noether), Dr. Y. Zhang, Dr. J. Zönnchen

#### *Doktoranden:*

M. Aravena Aguirre, N. Ben Bekhti, C. Brüns, L. Castañeda, J. Dabringhausen, L. Dedes, T. Eifler, X. Er, P. Erni, A. Fangano, I. Georgiev, J. Haas, J. Hartlap, M. Hettterscheidt, H. Hildebrandt, K. Holhjem, H. Israel, B. Joachimi, F. Kenn, A. Küpper, U. Löckmann, G. Maintz, T. Maschberger, M. Metz, S. Nasoudi Shoar, O. Nenestyan, M. Nord, S. Oh, F. Pacaud, E. Pastor-Mira, J. Pflamm-Altenburg, J. Pielorz, J. Pineda, J. Rödiger, T. Schrabback-Krahe, Y. Schubert, I. Tereno, I. Thies, D. Verscharen, F. Volino, T. Westmeier, B. Winkel

*Diplomanden:*

A. Angsmann, S. Aretz, A. Böhnert, J. Dabringhausen, H. Eckmiller, F. Froborg, M. Günther, N. Hapke, B. Joachimi, E. Krause, A. Küpper, M. Marks, I. Misgeld, J. Nagel, M. Sawitzki, D. Verscharen, A. Verweyen, D. Weghorn, D. Wuttke

*Master of Science in Astrophysik*

Q. Nguyen

*Sekretariat und Verwaltung:*

E. Danne, A. Lindner (Hoher List), K. Schrüfer, Ch. Stein-Schmitz

*Technisches Personal:*

A. Bödewig, C. Brauer, G. Klink (Hoher List), M. Polder (Hoher List), H. Poschmann, P. Müller, H. Saxler (Hoher List), F.-J. Willems (Hoher List), T. Vidua

*Studentische Mitarbeiter:*

S. Aretz, A. Böhnert, H. Eckmiller, M. Günther, M. Marks, J. Nagel, M. Pawlowski, N. Roth, M. Sawitzki, N. Stuhmann, A. Verweyen

## 1.2 Personelle Veränderungen

*Ausgeschieden:*

P. Becker, Dr. F. Bensch, Dr. O. Czoske, Dr. R. Dutta-Roy, Dr. P. Erni, F. Froborg, Dr. D. Garcia-Appadoo, Dr. J. Geisbüsch, Dr. A. Halkola, Dr. M. Hettterscheidt, Dr. Hildebrandt, Dr. M. Hilker, Dr. P. Hudelot, Dr. M. Kilbinger, Dipl. Phys. G. Lay, Dr. P. Richter, Dr. M. Röllig, T. Schrabback-Krahe, Dr. P. Simon, N. Stuhmann, Dr. C. Vlahakis, Dr. P. Watts, D. Weghorn, Dr. T. Westmeier

*Neueinstellungen und Änderungen des Anstellungsverhältnisses:*

Dr. M. Albrecht, L. Castaneda, J. Dabringhausen, Dr. T. Decressin, X. Er, J. Haas, S. Hochgürtel, K. Holhjem, B. Joachimi, Dr. J. Jorgensen, Dr. K. Knudsen, A. Küpper, Dr. G. Li, T. Maschberger, Dr. R. Mittal, S. Nasoudi-Shoar, E. Pastor-Mira, Dr. P. Papadopoulos, S. Oh, F. Pacaud, Dr. J. Pineda-Galvez, Dr. M. Schirmer, Dr. S. Suyu, Dipl. Phys. D. Verscharen, Dr. W. Vlemmings, F. Volino, Dr. O. Wucknitz, Dr. Y. Zhang, Dr. J. Zönnchen

## 2 Lehrtätigkeit, Prüfungen und Gremientätigkeit

### 2.1 Lehrtätigkeiten

H. Baumgardt: “Numerische Methoden der Physik”, (SS07)

H. Baumgardt, P. Kroupa: “Numerical gravitational dynamics”, (WS06/07, WS07/08)

F. Bertoldi: “Observational Cosmology”, (SS07)

F. Bertoldi, K.S. de Boer, P. Kroupa, M. Massi: “Stars and Stellar Evolution”, (WS07/08)

F. Bertoldi, P. Schilke, U. Klein, W. Vlemmings: “Practical Interferometry”, (WS07/08)

K.S. de Boer: “Einführung in die Astronomie”, (WS06/07)

K.S. de Boer: “How to write an abstract, article, proposal”, (WS06/07)

K.S. de Boer, M. Hilker: “Stars and stellar evolution”, (WS06/07)

T. Erben: “EDV für Physiker”, (WS07/08)

T. Erben, I. Brock: “EDV für Physiker”, (WS06/07)

M. Geffert: “Astronomie für Einsteiger I”, (WS06/07, WS07/08)

- M. Geffert: “Astronomie für Einsteiger II”, (SS07)
- J. Kerp: “Radio and X-ray observations of dark matter and dark energy”, (WS06/07)
- J. Kerp, T.H. Reiprich: “Radio and X-ray observations of dark matter and dark energy”, (WS07/08)
- J. Kerp, T.H. Reiprich: “Introduction to galactic and extragalactic X-ray astronomy”, (SS07)
- U. Klein: “Radio astronomy: tools, applications, and impacts”, (WS07/08)
- U. Klein, F. Bertoldi: “Radio astronomy: tools, applications, and impacts”, (WS06/07)
- U. Klein, J. Kerp: “Physics of the interstellar medium”, (SS07)
- P. Kroupa: “The physics of dense stellar systems”, (WS06/07, WS07/08)
- P. Kroupa: “Astrophysics of Galaxies”, (SS07)
- M. Massi: “Stellar and solar coronae”, (SS07)
- M. Massi: “Quasars and microquasars”, (WS06/07, WS07/08)
- P. Schilke: “Star formation”, (WS06/07)
- P. Schilke, F. Bertoldi: “Einführung in die Radioastronomie”, (SS07)
- P. Schilke, F. Bertoldi: “Star formation”, (WS07/08)
- P. Schneider: “Einführung in die extragalaktische Astronomie”, (SS07)
- P. Schneider: “Gravitational Lensing”, (SS07)
- P. Schneider: “Cosmology”, (WS06/07, WS07/08)
- B. Ziegler, J. Kerp: “Einführung in die Astronomie”, (WS07/08)

## 2.2 Von den Dozenten und Mitarbeitern wurden folgende Seminare angeboten und abgehalten:

- Alle Dozenten “Seminar der Astronomie/Astrophysik”, (WS06/07, SS07, WS07/08)
- H. Baumgardt, P. Kroupa: “Seminar on theoretical dynamics”, (WS06/07, SS07)
- K.S. de Boer: “Seminar über Satellitenastrometrie”, (WS06/07)
- M Hilker, H. Baumgardt, P. Kroupa: “Seminar on star clusters and dwarf galaxies”, (WS06/07, WS07/08)
- H. Baumgardt, P. Kroupa: “Seminar on star clusters and dwarf galaxies”, (SS07)
- U. Klein, F. Bertoldi, M. Massi, K. Menten, P. Schilke: “Seminar on radio astronomy”, (WS06/07, SS07, WS07/08)
- P. Schneider: “Seminar on cosmology and selected problems in gravitational lensing research”, (WS06/07, SS07, WS07/08)
- P. Schneider: “Seminar on modern cosmology”, (SS07)
- P. Schneider: “Statistical methods in astrophysics”, (WS07/08)

## 3 Diplomarbeiten, Dissertationen, Habilitationen

### 3.1 Diplomarbeiten

*Abgeschlossen:*

- J. Dabringhausen: The physical reason for the high mass-to-light ratio of ultra compact dwarf galaxies
- F. Froborg: Automatisierte Massenmodellierung von Spiralgalaxien

- N. Hapke: Bestimmung der Eigenbewegung von Sternen in offenen Sternhaufen mittels digitalisierter Refraktorplatten
- B. Joachimi: Covariances of second-order cosmic shear measures
- E. Krause: Mock observations of simulated galaxy interactions
- A. Küpper: The cooling sequence of star clusters
- I. Misgeld: Dwarf galaxies in the Hydra I Cluster
- D. Verscharen: Kinetische Betrachtung des parallelen magnetohydrodynamischen Schocks
- D. Weghorn: Detection of baryonic acoustic oscillations with galaxy-galaxy lensing

*Laufend:*

- A. Angsmann: Radio Wave Propagation Effects in the Atmosphere of Titan: Applications to Cassini/Huygens Radio-Science Investigations
- S. Aretz: Eigenbewegung von Kugelsternhaufen
- A. Böhnert: Testing Shapelets for shear estimates
- H. Eckmiller: Detailed Study of a Sample of X-Ray Clusters with Chandra
- M. Günther: Eigenbewegungsuntersuchungen
- M. Marks: The influence of gas expulsion and initial mass-segregation on the stellar mass-function of globular star clusters
- J. Nagel: Dunkle Materie in Zwerggalaxien
- M. Sawitzki: Analyse von Bolometerdaten stark rotverschobener Starburst-Galaxien in Abell 2125
- A. Verweyen: Structure and Dynamics of the Venus Atmosphere from the Venus Express Radio Science Experiment VeRa
- D. Wuttke: Analysis of the most luminous X-ray cluster RXJ1347-1145 using gravitational lensing

## 3.2 Dissertationen

*Abgeschlossen:*

- P. Erni: Early Nucleosynthesis Studies with Quasar Absorption Line Spectroscopy
- M. Hetterscheid: Cosmic shear analysis of the Garching-Bonn Deep Survey
- H. Hildebrandt: Application of Photometric Redshifts on the Correlation Properties of Galaxies and Matter
- J. Pineda: Properties of the Molecular Gas in Low-Metallicity Environments
- T. Schrabback-Krahe: Measuring Cosmic Shear with ground- and space-based telescopes
- I. Tereno: Cosmological parameters estimation with cosmic shear
- T. Westmeier: The Relics of Structure Formation: High-Velocity Clouds around the Andromeda Galaxy and the Milky Way

*Laufend:*

- M. Aravena: Star formation in the early universe
- N. Ben Bekhti: Absorption and Emission signatures from circumgalactic IVC/HVC gas of the Milky Way
- C. Brüns: Untersuchung der Struktur von Elliptischen Galaxien mit Hilfe numerischer Simulationen
- L. Castañeda: Kinematics in Galaxy Groups

- J. Dabringhausen: The stellar initial mass function in massive star clusters
- L. Dedes: The cloudy Milky Way halo
- T. Eifler: Theoretical aspects of cosmic shear and its ability to constrain cosmological parameters
- X. Er: Higher-order shear measurement
- A. Fangano: Absorption signatures of galactic winds
- I. Georgiev: Globular cluster systems of low mass galaxies in groups and clusters
- J. Hartlap: Simulation and Analysis of Galaxy-Galaxy-Lensing: Ray-Tracing through the Millennium Simulation
- K. Holhjem: Shear-selection of galaxy clusters in the KIDS survey
- H. Israel: Weak Lensing Mass Reconstruction of a Sample of Distant X-Ray Selected Clusters
- B. Joachimi: The shape shear contribution to the cosmic shear signal
- F. Kenn: Dark Matter in the Outer Regions of Spiral Galaxies
- A. Küpper: Dynamical evolution of star clusters
- U. Löckmann: Numerical Dynamics within the Vicinity of a Super-Massive Black Hole
- G. Maintz: Eigenschaften von und räumliche Verteilung der RR Lyra Sterne
- T. Maschberger: The formation, dynamics, and stellar content of star clusters
- M. Metz: Untersuchung der Substrukturen in den dunklen Halos Milchstraßenähnlicher Galaxien
- S. Nasoudi Shoar: Fine structure in interstellar gas from UV spectroscopy
- O. Nenestyan: Determination of Cosmological Parameters using XMM-Newton Observations of the HIFLUGCS Cluster Sample
- M. Nord: Radio source contamination in Sunyaev-Zeldovich surveys
- E. Pastor-Mira: Aperture Statistics for Virgo Simulation
- J. Pielorz: The 3-Point-Cross-Correlation Function of Galaxies and Dark Matter in the Universe
- J. Pflamm-Altenburg: Dynamics of young star clusters
- J. Rödiger: Higher order cosmic shear statistics
- Y. Schubert: Kinematics of Globular Cluster Systems
- I. Thies: Induced planet formation in star clusters
- B. Winkel: HI survey and RFI analysis using the new Multi-Beam Receiver at the 100-m telescope

### 3.3 Habilitationen

H. Baumgardt 4. Juli 2007

## 4 Tagungen und Veranstaltungen

“Witnesses of Cosmic History: Formation and evolution of galaxies, black holes and their environments”, Organisator: P. Schneider, 11. bis 13. Januar 2007, Bad Honnef

“The Milky Way Halo”, Organisatoren: K.S. de Boer, M. Geffert, P. Kroupa, 29. Mai bis 2. Juni 2007 (Proceedings: <http://www.astro.uni-bonn.de/mwhalo/proceedings>)

“The Dark Universe”, Organisator: F. Bertoldi, 30.9. bis 3.10. 2007, Bad Honnef

“Galaxy Evolution”, Organisator: P. Schneider, 9. bis 12. Oktober 2007, Bad Honnef  
 “The AIFA Conference on actual topics in astrophysics”, Organisator: P. Schneider, 26. und 27. Oktober 2007  
 Modelling and Observing Dense Stellar Systems (MODEST-8), Organisatoren: P. Kroupa, H. Baumgardt, 4. bis 8. Dezember 2007, Bad Honnef

## 5 Veröffentlichungen

### 5.1 In Zeitschriften und Büchern

- Abbott, B., Abbott, R., Adhikari, R., Agresti, J., Ajith, P., and 474 colleagues: Searches for periodic gravitational waves from unknown isolated sources and Scorpius X-1: Results from the second LIGO science run, *Phys. Rev. D* **76** (2007), 082001
- Aravena, M., Hitschfeld, M., Kramer, C., Bertoldi, F., Fukui, Y., and 1 colleagues: CO4  $\rightarrow$  3 and [CI] 1  $\rightarrow$  0 in the centers of NGC4945 and Circinus, *Astronomische Nachrichten* **328** (2007), 638
- Böhringer, H., Schuecker, P., Pratt, G. W., Arnaud, M., Ponman, T. J., and 29 colleagues: The representative XMM-Newton cluster structure survey (REXCESS) of an X-ray luminosity selected galaxy cluster sample, *A&A* **469** (2007), 363–377
- Ballero, S. K., Kroupa, P., Matteucci, F.: Testing the universal stellar IMF on the metallicity distribution in the bulges of the Milky Way and M 31, *A&A* **467** (2007), 117–121
- Bardeau, S., Soucail, G., Kneib, J.-P., Czoske, O., Ebeling, H., and 3 colleagues: A CFH12k lensing survey of X-ray luminous galaxy clusters. II. Weak lensing analysis and global correlations, *A&A* **470** (2007), 449–466
- Basu, K.: Observation of resonant scattering from CMB thermal and angular power spectrum, *New Astronomy Review* **51** (2007), 431–436
- Baumgardt, H., Kroupa, P.: A comprehensive set of simulations studying the influence of gas expulsion on star cluster evolution, *MNRAS* **380** (2007), 1589–1598
- Benjamin, J., Heymans, C., Semboloni, E., van Waerbeke, L., Hoekstra, H., and 5 colleagues: Cosmological constraints from the 100-deg<sup>2</sup> weak-lensing survey, *MNRAS* **381** (2007), 702–712
- Bensch, F., Bergin, E. A.: Erratum: “The Pure Rotational Line Emission of Ortho-Water Vapor in Comets. I. Radiative Transfer Model” *ApJ* **659** (2007), 1795–1799
- Bensch, F., Melnick, G. J., Neufeld, D. A., Harwit, M., Snell, R. L., and 2 colleagues: Submillimeter Wave Astronomy Satellite observations of Comet 9P/Tempel 1 and Deep Impact, *Icarus* **191** (2007), 267–275
- Benz, A. O., Stüber, P., Bourke, T. L., van der Tak, F. F. S., van Dishoeck, E. F., and 1 colleagues: Energetic radiation and the sulfur chemistry of protostellar envelopes: submillimeter interferometry of AFGL 2591, *A&A* **475** (2007), 549–558
- Benz, A. O., Stauber, P., Bourke, T. L., van Det Tak, F. F. S., van Dishoeck, E. F., and 1 colleagues: AFGL 2591 maps in CS, SO and HCN lines (Benz+, 2007), *VizieR Online Data Catalog* **347** (2007), 50549
- Berciano Alba, A., Garrett, M. A., Koopmans, L. V. E., Wucknitz, O.: Highly-magnified, multiply-imaged radio counterparts of the sub-mm starburst emission in the cluster-lens MS0451.6-0305, *A&A* **462** (2007), 903–911
- Bertoldi, F., Carilli, C., Aravena, M., Schinnerer, E., Voss, H., and 18 colleagues: COSBO: The MAMBO 1.2 Millimeter Imaging Survey of the COSMOS Field, *ApJS* **172** (2007), 132–149
- Bird, M. K.: Coronal Faraday rotation of occulted radio signals, *Astronomical and Astro-*

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- Bisschop, S. E., Jorgensen, J. K., van Dishoeck, E. F., de Wachter, E. B. M.: Testing grain-surface chemistry in massive hot-core regions, *A&A***465** (2007), 913–929
- Böhm, A., Ziegler, B.: Evolution of Field Spiral Galaxies up to Redshifts  $z = 1$ , *ApJ* **668**, 846–852
- Braine, J., Ferguson, A. M. N., Bertoldi, F., Wilson, C. D.: The Detection of Molecular Gas in the Outskirts of NGC 6946, *ApJ***669** (2007), L73–L76
- Braun, R., Oosterloo, T. A., Morganti, R., Klein, U., Beck, R.: The Westerbork SINGS survey. I. Overview and image atlas, *A&A***461** (2007), 455–470
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- Brosche, P., Schwarz, O.: The galactic surface density derived from K giants, *Astronomische Nachrichten* **328** (2007), 178–185
- Brosche, P.: F.X. von Zach and the Fifth Continent, *Journal of Astronomical History and Heritage* **10** (2007), 133–136
- Calamida, A., Bono, G., Stetson, P. B., Freyhammer, L. M., Cassisi, S., and 13 colleagues: Strömgren Photometry of Galactic Globular Clusters. I. New Calibrations of the Metallicity Index, *ApJ***670** (2007), 400–422
- Carilli, C. L., Murayama, T., Wang, R., Schinnerer, E., Taniguchi, Y., and 10 colleagues: Radio and Millimeter Properties of  $z = 5.7$  Ly $\alpha$  Emitters in the COSMOS Field: Limits on Radio AGNs, Submillimeter Galaxies, and Dust Obscuration, *ApJS***172** (2007), 518–522
- Carilli, C. L., Neri, R., Wang, R., Cox, P., Bertoldi, F., and 11 colleagues: Detection of  $1.6 \cdot 10^{10} M_{\text{Solar}}$  of Molecular Gas in the Host Galaxy of the  $z = 5.77$  SDSS Quasar J0927+2001, *ApJ***666** (2007), L9–L12
- Carpano, S., Pollock, A. M. T., Wilms, J., Ehle, M., Schirmer, M.: A Wolf-Rayet/black-hole X-ray binary candidate in NGC 300, *A&A***461** (2007), L9–L12
- Chapman, N. L., Lai, S.-P., Mundy, L. G., Evans, N. J., II, Brooke, T. Y., and 20 colleagues: The Spitzer c2d Survey of Large, Nearby, Interstellar Clouds. IV. Lupus Observed with MIPS, *ApJ***667** (2007), 288–302
- Chashei, I. V., Efimov, A. I., Bird, M. K.: Solar wind turbulence from radio occultation data, *Astronomical and Astrophysical Transactions* **26** (2007), 611–620
- Chen, J., Rozo, E., Dalal, N., Taylor, J. E.: Astrometric Perturbations in Substructure Lensing, *ApJ***659** (2007), 52–68
- Chen, Y., Reiprich, T. H., Böhringer, H., Ikebe, Y., Zhang, Y.-Y.: Statistics of X-ray observables for the cooling-core and non-cooling core galaxy clusters, *A&A***466** (2007), 805–812
- Chen, Y.-J., Nuevo, M., Hsieh, J.-M., Yih, T.-S., Sun, W.-H., and 6 colleagues: Carbamic acid produced by the UV/EUV irradiation of interstellar ice analogs, *A&A***464** (2007), 253–257
- Cortese, L., Marcellac, D., Richard, J., Bravo-Alfaro, H., Kneib, J.-P., and 6 colleagues: The strong transformation of spiral galaxies infalling into massive clusters at  $z = 0.2$ , *MNRAS***376** (2007), 157–172
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