

Publications

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Peer-reviewed articles

- A. Ernst, P. Berczik, A. Just** Roche volume filling and the dissolution of open star clusters: 2015, submitted to *Astron. Nachr.*
- J. Rybizki, A. Just** Towards a fully consistent Milky Way disc model - III. Constraining the initial mass function: 2015, *Mon. Not. R. Astron. Soc.* **447**, 3880, 12 pages
- E. Polyachenko, A. Just** Bisymmetric normal modes in soft-centred and realistic galactic discs: 2015, *Mon. Not. R. Astron. Soc.* **446**, 1203, 10 pages
- C. Boeche, A. Siebert, T. Piffl, A. Just, et al.** Chemical gradients in the Milky Way from the RAVE data. II. Giant stars: 2014, *Astron. & Astrophys.* **568**, A71, 13 pages
- C. Boeche, A. Siebert, T. Piffl, A. Just, et al.** Chemical gradients in the Milky Way from the RAVE data. I. Dwarf stars: 2013, *Astron. & Astrophys.* **559**, A59, 12 pages
- V. Lora, E.K. Grebel, F.J. Sánchez-Salcedo, A. Just** Sextans' Cold Substructures as a Dynamical Judge: Core, Cusp or MOND?: 2013, *Astrophys. J.* **777**, 65, 9 pages
- G. Kordopatis, G. Gilmore, ..., A. Just, et al.** The RAdial Velocity Experiment (RAVE): Fourth data release: 2013, *Astron. J.* **146**, 134, 36 pages
- F.M. Khan, K. Holley-Bockelmann, P. Berczik, A. Just** Supermassive Black Hole Binary Evolution in Axisymmetric Galaxies: The Final Parsec Problem is Not a Problem: 2013, *Astrophys. J.*, **773**, 100, 6 pages
- O. Golubov, A. Just, et al.** The asymmetric drift, the local standard of rest, and implications from RAVE data: 2013, *Astron. & Astrophys.* **557**, A92, 11 pages
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- R. Bien, T. Brandt, A. Just** Simulating sinking satellites with Superbox-10: 2013, *Mon. Not. R. Astron. Soc.* **428**, 1631, 11 pages
- S. Gao, A. Just, E.K. Grebel** Detailed comparison of Milky Way models based on stellar population synthesis and SDSS star counts at the north Galactic pole: 2013, *Astron. & Astrophys.* **549**, A20, 20 pages
- A. Just, D. Yurin, M. Makukov, et al.** Enhanced accretion rates of stars on Super-massive Black Holes by star-disk interactions in galactic nuclei: 2012, *Astrophys. J.* **758**, 51, 10 pages
- V. Lora, A. Just, F.J. Sánchez-Salcedo, E.K. Grebel** Dark matter subhaloes in Ursa Minor dwarf galaxy: 2012, *Astrophys. J.* **757**, 87, 9 pages
- A. Siebert, B. Famaey, J. Binney, ... , A. Just, et al.** The properties of the local spiral arms from RAVE data: two-dimensional density wave approach: 2012, *Mon. Not. R. Astron. Soc.* **425**, 2335, 8 pages

- F.M. Khan, I. Berentzen, P. Berczik, A. Just, et al.** Formation and Hardening of Supermassive Black Hole Binaries in Minor Mergers of Disk Galaxies: 2012, *Astrophys. J.*, **756**, 30, 10 pages
- F.M. Khan, M. Preto, P. Berczik, I. Berentzen, A. Just, R. Spurzem** Mergers of Unequal-mass Galaxies: Supermassive Black Hole Binary Evolution and Structure of Merger Remnants: 2012, *Astrophys. J.*, **749**, 147, 14 pages
- A. Ernst, A. Just, P. Berczik, C. Olczak** Simulations of the Hyades: 2011, *Astron. & Astrophys.*, **536**, A64, 12 pages
- Y.S. Lee, T.C. Beers, D. An, Z. Ivezić, A. Just, et al.** Formation and Evolution of the Disk System of the Milky Way: $[\alpha/\text{Fe}]$ Ratios and Kinematics of the SEGUE G-dwarf Sample: 2011, *Astrophys. J.*, **738**, 187, 17 pages
- F.M. Khan, A. Just, D. Merritt** Efficient Merger of Binary Supermassive Black Holes in Merging Galaxies: 2011, *Astrophys. J.*, **732**, 89, 8 pages
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- A. Just, F.M. Khan, P. Berczik, A. Ernst, R. Spurzem** Dynamical friction of massive objects in galactic centres: 2011, *Mon. Not. R. Astron. Soc.*, **411**, 653-674
- A. Ernst, A. Just, P. Berczik, M.I. Petrov** Calibration of radii and masses of open clusters with a simulation: 2010, *Astron. & Astrophys.*, **524**, A62, 9 pages
- A. Just, H. Jahreiss** Towards a fully consistent Milky Way disc model – I. The local model based on kinematic and photometric data: 2010, *Mon. Not. R. Astron. Soc.*, **402**, 461-478
- A. Ernst, A. Just, R. Spurzem** On the dissolution of star clusters in the Galactic Centre - I. Circular orbits: 2009, *Mon. Not. R. Astron. Soc.*, **399**, 141-156
- A. Just, P. Berczik, M.I. Petrov, A. Ernst** Quantitative analysis of clumps in the tidal tails of star clusters: 2009, *Mon. Not. R. Astron. Soc.*, **392**, 969-981
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- A. Just, C. Möllenhoff, A. Borch** An evolutionary disc model of the edge-on galaxy NGC 5907: 2006, *Astron. & Astrophys.*, **459**, 703-716
- Ch. T. Omarov, R. Spurzem, A. Just, E. Ya. Vilkoviskij** Some characteristic timescales in a numerical model of the central parts of active galactic nuclei: 2005, *Astron. and Astrophys. Transactions*, **24**, 285

- A. Just, J. Peñarrubia** Large scale inhomogeneity and local dynamical friction: 2005, *Astron. & Astrophys.*, **431**, 861-877
- J. Peñarrubia, A. Just, P. Kroupa** Dynamical friction in flattened systems: A numerical test of Binney's approach: 2004, *Mon. Not. R. Astron. Soc.* **349**, 747-756
- R. Spurzem, P. Berczik, G. Hensler, Ch. Theis, P. Amaro-Seoane, M. Freitag, A. Just** Physical Processes in Star-Gas Systems: 2004, *Publ. Astron. Soc. Austr.* **21**, 188-191
- A. Just, B. Fuchs, R. Wielen** Signatures of the vertical structure of stellar disks in colour profiles of edge-on galaxies: 1996, *Astron. & Astrophys.* **309**, 715-732
- B. M. Deiss, A. Just** Turbulent mixing and excitation of density fluctuations in the intracluster medium: 1996, *Astron. & Astrophys.* **305**, 407-420
- A. Just, S. Jacobi, B. M. Deiss** Hydromagnetic interaction of magnetized clumps and the ambient medium in molecular clouds: 1994, *Astron. & Astrophys.* , **289**, 237-255
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- S. Jacobi, A. Just, B. M. Deiss, W. H. Kegel** The influence of a magnetic field on the velocity fluctuations in the interstellar medium: 1990, *Astron. & Astrophys.* **237**, 461-470
- A. Just, W. H. Kegel** Spatial structure and excitation timescales of fluctuations in the interstellar medium induced by the system of stars: 1990, *Astron. & Astrophys.* **232**, 447-466
- A. Just, B. M. Deiss, W. H. Kegel, H. Böhringer, G. E. Morfill** Heating of the Intracluster Medium: 1990, *The Astrophysical Journal* **354**, 400-405
- A. Just, W. H. Kegel, B. M. Deiss** Dynamical friction between the ISM and the system of stars: 1986, *Astron. & Astrophys.* **164**, 337-341

Books etc.

- A. Just** Das Milchstraßensystem oder die Galaxis: 2012, in *Abriss der Astronomie*, H.-J. Röser & W. Tscharnuter (Eds.), Wiley-VCH Verlag, Weinheim
- S. Deiters, B. Fuchs, A. Just, R. Spurzem, R. Wielen (Hrsg.)** *Dynamics of star clusters and the Milky Way: 2001, ASP Conf. Series* **228**, 587 Seiten
- A. Just** Structure of the Galaxy: 1999, in *Landolt-Börnstein: Numerical Data and Functional Relationships (New Series). Group VI: Astronomy and Astrophysics*, Ed. H. H. Voigt, Springer-Verlag, Berlin **3 C**, 137-158
- A. Just** Fluktuationstheorie zur Dynamik und Entwicklung von Molekülwolken: 1993, *Habilitationsschrift, Heidelberg*
- A. Just** Dynamische Reibung zwischen der interstellaren Materie und dem System der Sterne: 1987, *Dissertation, J. W. Goethe-Universität Frankfurt/Main*

Conference presentations up to 2005

- A. Just, R. Spurzem** Orbital decay of star clusters and Massive Black Holes in cuspy galactic nuclei: 2005, Abstract in: *Astron. Nachr.* **326**, 594
- C. T. Omarov, R. Spurzem, A. Just** Impact of an accretion disk on the structure of a stellar cluster in active galactic nuclei: 2005, Abstract in: *Astron. Nachr.* **326**, 600
- A. Just** Multi-colour analysis of NGC 5907: 2005, Abstract in: *Verhandlungen der DPG - Physik seit Einstein 4/2005*, 27
- A. Just** Star Formation History and IMF of the Milky Way Disc: 2003, Abstract in: *JENAM 2003 - New Deal in European Astronomy 03T09*, 44
- A. Just, P. Amaro-Seoane** Stability and Evolution of Supermassive Stars (SMS): 2003, In: *JENAM 2002 - Galactic & Stellar Dynamics, EAS Publications Series 10*, 127–132
- A. Just** The Local Star Formation History of the Disk: 2002, In: *Disks of Galaxies: Kinematics, Dynamics and Perturbations*, Eds. E. Athanassoula, A. Bosma, Mujica, R., *ASP Conf. Series 275*; 117–120
- A. Just** The stellar age distribution and the vertical structure of galactic disks: 2001, In: *Dynamics of star clusters and the Milky Way*, Eds. S. Deiters, B. Fuchs, A. Just, R. Spurzem, R. Wielen, *ASP Conf. Series 228*; 169–174 Abstract 2000 in *AG Abstract Series 16*, 13
- A. Just** The local star formation history derived from kinematical data: 1999, Abstract in: *JENAM99, Abstracts, ESA*, 265 JENAM Tagung, Toulouse, 7. – 11. September 1999
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- A. Just, R. Spurzem** Orbital decay of star clusters and Massive Black Holes in cuspy galactic nuclei: 2005, In: *Astron. Nachrichten* **326**; 594
- K. Warnick, A. Just** Dynamics and evolution of Satellite galaxies in Dark Matter Haloes: 2004, In: *Astron. Nachrichten* **325**, **Suppl. Issue 1**; 128
- A. Just** Orbit Evolution of Satellite Galaxies in Dark Matter Haloes: 2003, In: *IAU-Symp. 220, Dark Matter in Galaxies, ASP Conf. Series*, 463–464
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- A. Just, P. Amaro-Seoane** Gas-star-interaction in Dense Galactic Nuclei: 2001, *AG Abstract Series* **18**, 212
- J. Peñarrubia, C. M. Boily, A. Just, P. Kroupa** Flattened Dark Matter halos and the Holmberg Effect: 2000, *AG Abstract Series* **17**, 74
- A. Just** The vertical disk structure and the IMF: 2000, *AG Abstract Series* **17**, 73
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- A. Just** Age and Metallicity Distribution of the Disk Stars from Edge-on Galaxies: 2002, in *Cosmic Chemical Evolution Eds. K. Nomoto, J. W. Truran, Proc. IAU Symp.* **187**, 225; Abstract 1997 in: *Abstract Book Kyoto IAU23*, 299
- A. Just** Generalized Colour Analysis of Dusty Exponential Disks: 1996, *AG Abstract Series* **12**, 132
- A. Just, R. Wielen, B. Fuchs, C. Scorza** Dynamical Evolution of Galactic Disks from Multi-colour Profiles in Edge-on Galaxies: 1996, in *From Stars to Galaxies: The Impact of Stellar Physics on Galaxy Evolution*, Eds. C. Leitherer, U. Fritze-v. Alvensleben, J. Huchra, *ASP Conf. Series* **98**, 557–558
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- B. M. Deiss, A. Just** How to mix the Intracluster Medium: 1994, *AG Abstract Series* **10**, 230
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