

List of refereed Publications
(Joachim Wambsganss, February 17, 2012)

2012

- (118) Shin, I.-G., Choi, J.-Y., ... Cassan, A, Kubas, D., **Wambsganss, J.**, Zub, M., Gerner, T., Liebig, C., Maier, G., Proft, S., Schönebeck, F., Zimmer, F. et al.: Microlensing binaries discovered through high-magnification channel. *ApJ* 746, 127 (2012)
- (117) Pooley, D., Rappaport, S., Blackburne, J.A., Schechter, P.L., **Wambsganss, J.**: X-Ray and Optical Flux Ratio Anomalies in Quadruply lensed Quasars. II. Mapping the Dark Matter Content in Elliptical Galaxies. *ApJ* 744, 111 (2012)
- (116) Cassan, A., Kubas, D., Beaulieu, J.-P., Dominik, M., Horne, K., Greenhill, J., **Wambsganss, J.** et al.: One or more bound planets per Milky Way star from microlensing observations. *Nature* 481, 167-169 (2012)

2011

- (115) Proft, S., Demleitner, M., **Wambsganss, J.**: Prediction of astrometric microlensing events during the Gaia mission. *A&A* 536, A50 (2011)
- (114) Muraki, Y., Han, C., ... Liebig, C., Maier, G., **Wambsganss, J.**, Zimmer, F et al.: Discovery and mass measurements of a cold, 10 earth mass planet and its host star. *ApJ* 741, 22 (2011)
- (113) Skowron, J. ... Cassan, A., **Wambsganss, J.**, Zub, M.: Binary microlensing event OGLE-2009-BLG-020 gives verifiable mass, distance, and orbit predictions. *ApJ* 738, 87 (2011)
- (112) Shin, I.-G., ... **Wambsganss, J.** et al.: OGLE-2005-BLG-018: Characterization of full physical and orbital parameters of a gravitational binary lens. *ApJ* 735, 85 (2011)
- (111) **Wambsganss, J.**: Astronomy: Bound and unbound planets abound. *Nature* 473, 289-291 (2011)
- (110) Miyake, N., ... Liebig, C., Maier, G., **Wambsganss, J.**, Zimmer, F. et al.: A sub-Saturn Mass Planet, MOA-2009-BLG-319Lb. *ApJ* 728, 120 (2011)
- (109) Batista, V., Gould, A., Dieters, S., ... **Wambsganss, J.**, Zub, M., Liebig, C., Maier, G., Zimmer, F.: MOA-2009-BLG-387Lb: a massive planet orbiting an M dwarf. *A&A* 529, A102 (2011)
- (108) Sluse, D., Schmidt, R., Courbin, F., Hutsemékers, D., Meylan, G., Eigenbrod, A., Anguita, T., Agol, E., **Wambsganss, J.**: Zooming into the broad line region of the gravitationally lensed quasar QSO 2237+0305 \equiv the Einstein Cross III. Determination of the size and structure of the C IV and C III] emitting regions using microlensing. *A&A* 528, A100 (2011)

- (107) Ricci, D., Poels, J., Elyiv, A., Finet, F., Sprimont, P.G., Anguita, T., ... Liebig, C., Maier, G., **Wambsganss, J.**, Zimmer, F., Zub, M.: Flux and color variations of the quadruply imaged quasar HE 0435-1223. *A&A* 528, A42 (2011)
- (106) Zub, M., Cassan, A., ... **Wambsganss, J.** et al.: Limb darkening measurements for a cool red giant in microlensing event OGLE 2004-BLF-482. *A&A* 525, A15 (2011)
- (105) Zimmer, F., Schmidt, R.W., **Wambsganss, J.**: X-ray microlensing in the quadruply lensed quasar Q2237+0305. *MNRAS* 413, 1099-1106 (2011)
- (104) Enke, H., Steinmetz, M., Adorf, H.-M., Beck-Ratzka, A., Breitling, F., Brüsemeister, T., Carlson, A., Ensslin, T., Höggqvist, M., Nickelt, I., Radke, T., Reinefeld, A., Reiser, A., Scholl, T., Spurzem, R., Steinacker, J., Voges, W., **Wambsganss, J.**, White, S.: AstroGrid-D: Grid technology for astronomical science. *New Astronomy* 16, 79-93 (2011)

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- (103) Liebig, C., **Wambsganss, J.**: Detectability of extrasolar moons as gravitational microlenses. *A&A* 520, A68 (2010)
- (102) Fouqué, P., ... **Wambsganss, J.** et al. : OGLE 2008 - BLG - 290: An accurate measurement of the limb darkening of a galactic bulge K Giant spatially resolved by microlensing. *A&A* 518, A51 (2010)
- (101) Kausch, W., Schindler, S., Erben, T., **Wambsganss, J.**, Schwobe, A.: ARCRAIDER II: Arc search in a sample of non-Abell clusters. *A&A* 513, A8 (2010)
- (100) Dominik, M., ... Anguita, T., Liebig, C., **Wambsganss, J.**, Zub, M.: Realisation of a fully-deterministic microlensing observing strategy for inferring planet populations. *AN* 331, No. 7, 671-691 (2010)
- (99) Hwang, K.-H., ... Cassan, A., **Wambsganss, J.** et al.: OGLE-2005-BLG-153: Microlensing discovery and characterization of a very low mass binary. *ApJ* 723, 797-802 (2010)
- (98) Ryu, Y.-H., ... Liebig, C., Maier, G., **Wambsganss, J.**, Zimmer, F.: OGLE-2009-BLG-092/MOA-2009-BLG-137: a dramatic repeating event with the second perturbation predicted by real-time analysis. *ApJ* 723, 81-88 (2010)
- (97) Gould, A., ... Cassan, A., Kains, N., **Wambsganss, J.**, Zub, M. et al.: Frequency of solar-like systems and of ice and gas giants beyond the snow line from high-magnification microlensing events in 2005 - 2008. *ApJ* 720, 1073-1089 (2010)
- (96) Sumi, T., Bennett, D.P., ... **Wambsganss, J.** et al.: A cold Neptune-mass planet OGLE-2007-BLG-368Lb: cold Neptunes are common. *ApJ* 710, 1641-1653 (2010)
- (95) Schmidt, R.W., **Wambsganss, J.**: Quasar microlensing. *Gen. Relativ. Gravit.* 42, 2127-2150 (2010)

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- (94) Batista, V., Dong, S., ... **Wambsganss, J.**, Zub, M. et al.: Mass measurement of a single unseen star and planetary detection efficiency for OGLE 2007-BLG-050. *A&A* 508, 467- 478 (2009)
- (93) Anguita, T., Faure, C., Kneib, J.-P., **Wambsganss, J.**, Knobel, C., Koekemoer, A.M., Limousin, M.: COSMOS 5921+0638: Characterization and analysis of a new strong gravitationally lensed AGN. *A&A* 507, 35-46 (2009)
- (92) Han, C., Hwang, K.-H., **Wambsganss, J.**, et al.: Interpretation of strong short-term central perturbations in the light curves of moderate-magnification microlensing events. *ApJ* 705, 1116-1121 (2009)
- (91) Yee, J.C., ... **Wambsganss, J.**, et al.: Extreme magnification microlensing event OGLE-2008-BLG-279: Strong limits on planetary companions to the lens star. *ApJ* 703, 2082-2090 (2009)
- (90) Pooley, D., Rappaport, S., Blackburne, J., Schechter, P.L., Schwab, J., **Wambsganss, J.**: The dark-matter fraction in the elliptical galaxy lensing the quasar PG 1115+080. *ApJ* 697, 1892-1900 (2009)
- (89) Dong, S., Gould, A., ... Cassan, A., **Wambsganss, J.** et al.: OGLE-2005-BLG-071Lb, the Most Massive M Dwarf Planetary Companion? *ApJ* 695, 970-987 (2009)
- (88) Albrow, M.D., Cassan, A., Kains, N., Zub, M., **Wambsganss, J.** et al.: Difference imaging photometry of blended gravitational microlensing events with a numerical kernel. *MNRAS* 397, 2099-2105 (2009)
- (87) Kains, N., Cassan, A., Zub, M., Anguita, T., **Wambsganss, J.** et al.: A systematic fitting scheme for caustic-crossing microlensing events. *MNRAS* 395, 787-796 (2009)
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- (85) Eigenbrod, A., Courbin, F., Meylan, G., Agol, E., Anguita, T., Schmidt, R.W., **Wambsganss, J.**: Microlensing variability in the gravitationally lensed quasar QSO 2237+0305 \equiv the Einstein Cross. II. Energy profile of the accretion disk. *A&A* 490, 933-943 (2008)
- (84) Kubas, D., Cassan, A., Dominik, M., Bennett, D.P., **Wambsganss, J.**, ... Zub, M.: Limits on additional planetary companions to OGLE 2005-BGL-390L. *A&A* 483, 317-324 (2008)
- (83) Anguita, T., Faure, C., Yonehara, A., **Wambsganss, J.**, Kneib, J.-P., Covone, G., Alloin, D.: Integral field spectroscopy of four lensed quasars: analysis of their neighborhood and evidence for microlensing. *A&A*, 615-627 (2008)

- (82) Anguita, T., Schmidt, R.W., Turner, E.L., **Wambsganss, J.**, Webster, R.L., Loomis, K.A., Long, D., McMillan, R.: The multiple quasar Q2237+0305 under a microlensing caustic. *A&A* 480, 327-334 (2008)
- (81) Fohlmeister, J., Kochanek, C.S., Falco, E.E., Morgan, C.W., **Wambsganss, J.**: The rewards of patience: an 822 day time delay in the gravitational lens SDSS J1004+4112. *ApJ* 676, 761-766 (2008)
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- (76) Dobler, G., Keeton, C.R., **Wambsganss, J.**: Microlensing of central images in strong gravitational lens systems, *MNRAS* 377, 977-986 (2007)
- (75) Faure, C., Giraud, E., Melnick, J., Quintana, H., Selman, F., **Wambsganss, J.**: An S-shaped arc in the galaxy cluster RXJ0054.0-2823. *A&A* 463, 833-837 (2007)

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- (74) Cassan, A., Beaulieu, J.-P., Fouqué, P. et al. (including **Wambsganss, J.**): OGLE 2004-BLG-254: a K3 II Galactic bulge giant spatially resolved by a single microlens. *A&A* 460, 277-288 (2006)
- (73) Keeton, C.R., Burles, S., Schechter, P.L., **Wambsganss, J.**: Differential Microlensing of the Continuum and Broad Emission Lines in SDSS J0924+0219, the Most Anomalous Lensed Quasar. *ApJ* 639, 1-6 (2006)
- (72) **Wambsganss, J.**: Gravitational Lensing as a powerful astrophysical tool: Multiple quasars, giant arcs and extrasolar planets. *Ann. Phys.* 15, 43 (2006)
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- (69) Kubas, D., Cassan, A., Beaulieu, J.P. et al. (including **Wambsganss, J.**): Full characterization of binary-lens event OGLE-2002-BLG-069 from PLANET observations. *A&A* 435, 941-948 (2005)
- (68) Gil-Merino, R., **Wambsganss, J.**, Goicoechea, L., Lewis, G.F.: Limits on the transverse velocity of the lensing galaxy in Q2237+0305 from the lack of strong microlensing variability. *A&A* 432, 83-89 (2005)
- (67) Kausch, W., Schindler, S., Kronberger, T., **Wambsganss, J.**, Schwobe, A., Erben, T.: Lensing survey of the most X-ray luminous galaxy clusters. *Advances Space Res.* 36, 663-666 (2005)
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- (65) Mortonson, M.J., Schechter, P.L., **Wambsganss, J.**: Size is Everything: Universal Features of Quasar Microlensing with extended Sources. *ApJ* 628, 594-603 (2005)

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- (64) Cassan, A., Beaulieu, J.P., Brillant, S. et al. (including **Wambsganss, J.**): Probing the atmosphere of the bulge G5III star OGLE-2002-BUL-069 by analysis of microlensed H α line. *A&A* 419, L1-L4 (2004)
- (63) Jiang, G., DePoy, D.L., Gal-Yam, A. et al. (including **Wambsganss, J.**): OGLE-2003-BLG-238: Microlensing Mass Estimate of an Isolated Star. *ApJ* 617, 1307-1315 (2004)
- (62) Gosh, H., DePoy, D.L., Gal-Yam, A. et al. (including **Wambsganss, J.**): Potential Direct Single-Star Mass Measurement. *ApJ* 615, 450-459 (2004)
- (61) Schechter, P.L., **Wambsganss, J.**, Lewis, G.F.: Qualitative Aspects of Quasar Microlensing with Two Mass Components: Magnification Patterns and Probability Distributions. *ApJ* 613, 77-85 (2004)
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- (59) Gómez-Álvarez, P., Mediavilla G.E., Sánchez, S.F., Arribas, S., Wisotzki, L., **Wambsganss, J.**, Lewis, G., Muñoz, J.A.: Integral field spectroscopy of the gravitational lens HE1104-1805. *Astron. Nachr.* 235, 132-134 (2004)

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