

Kasper Borello Schmidt

Leibniz-Institut für Astrophysik Potsdam (AIP)
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ORCID [0000-0002-3418-7251](https://orcid.org/0000-0002-3418-7251)

Personal Information

Nationality Danish
Date of birth April 17 1983
Languages Danish (mother tongue), English (fluent), German (moderate)

Employment

Postdoctoral Researcher Leibniz-Institut für Astrophysik Potsdam (AIP), Potsdam, Germany	09/11/2015 - 31/10/2021
Postdoctoral Researcher University of California Santa Barbara (UCSB), CA, USA	01/09/2012 - 31/10/2015
Graduate Researcher Max Planck Institute for Astronomy (MPIA), Heidelberg, Germany	01/10/2008 - 31/08/2012

Education

Ph.D. in astronomy (Dr. Rer. Nat.) Max Planck Institute for Astronomy and University of Heidelberg, Germany Thesis: <i>'Frontiers of Galaxy Evolution – Time-Domain Observations and 3D Spectroscopy'</i> Supervisor: Prof. Dr. Hans-Walter Rix Member of: <i>The International Max Planck Research School for Astronomy and Cosmic Physics at the University of Heidelberg</i> (IMPRS-HD)	01/10 2008 - 09/07/2012
M.Sc. in astronomy Dark Cosmology Center, University of Copenhagen, Denmark Thesis: <i>'Towards Understanding Dark Matter Structures'</i> Supervisor: Dr. Steen H. Hansen	01/07/2006 - 12/08/2008
B.Sc. in astronomy University of Copenhagen, Denmark Thesis: <i>'The Inflationary Scenario in the Early Universe'</i> Supervisor: Dr. Steen H. Hansen & Dr. Anja C. Andersen	01/09/2003 - 30/06/2006

References

Prof. Tommaso Treu
UC Los Angeles
Physics & Astronomy
Tel: +1 310-206-5617
tt@astro.ucla.edu

Prof. Lutz Wisotzki
Leibniz-Institut für
Astrophysik Potsdam (AIP)
Tel: +49 (0)331 7499 532
lwisotzki@aip.de

Prof. Hans-Walter Rix
Max Planck Institute for
Astronomy (MPIA)
Tel: +49 (0)622 1528 210
rix@mpia-hd.mpg.de

Research Interests/topics

Galaxy Formation and Evolution: Optical and near-infrared grism, multi-object and IFU spectroscopy, Lyman break galaxy selection, rest-frame UV emission line searches and diagnostics, emission line mapping,
Gravitational Lensing: emission line mapping, faint object detections, cluster lens modeling,
Quasar Variability: modeling, quasar selection, color changes, AGN accretion disk physics,
Methods: Markov chain Monte Carlo, Bayesian statistics, empirical modeling, data mining, visual inspection, structure functions, luminosity functions.

Research Experience and Positions

Member, International Astronomical Union (IAU)	2018 - Pres.
Team Member, The GLASS JWST ERS program	2017 - Pres.
Team Member, MUSE GTO team	2016 - Pres.
Team Member, The Grism Lens-Amplified Survey from Space (GLASS)	2012 - Pres.
Team Member, BoRG Hubble Parallel Survey Group	2012 - Pres.
Referee, ApJ, MNRAS, Science	2010 - Pres.
Fellow, International Teaching Professionals program	2017 - 2018
External Reviewer for Chinese Telescope Access Program TAC	2017
Team Member, 3D-HST Hubble Treasury Legacy Survey Group	2010 - 2013
Organizer & Founder of 'LiHD - Lensing in Heidelberg', monthly seminar session on lensing	2009 - 2012
Team Member, Pan-STARRS1 Science Collaboration	2008 - 2012
Member, International Max Planck Research School - Heidelberg (IMPRS-HD)	2008 - 2012
Member, ELIXIR , Marie Curie Initial Training Network: Early Universe w. NIRSpec on JWST	2008 - 2012

Grants, Fellowships, and Awards

Fellow, International Teaching Professionals program	2017 - 2018
International Travel Grant to XXIX IAU General Assembly, AAS, 2015	USD 1,000
CoI: HST-GO-14041 (SN Refsdal G141)	USD 18,000
CoI: HST-GO-13459 (Grism Lens-Amplified Survey from Space; GLASS)	USD 255,000
CoI: HST-GO-12572 (The Brightest of Reionizing Galaxies; BoRG)	USD 300,000
Fellow, ELIXIR , Marie Curie Initial Training Network: Early Universe w. NIRSpec on JWST	2008 - 2012
Fellow, International Max Planck Research School - Heidelberg (IMPRS-HD)	2008 - 2012

Public Outreach

AIP press release on MUSE rediscovery of NOVA	29/04/2019
Interview for "To be an Extra" by Henrike Meyer	19/02/2019
ESO and AIP press releases on MUSE Ly α sky-coverage	01/10/2018
AIP press release on MUSE velocity fields of nearby galaxies	06/06/2018
ESO and AIP press releases on MUSE UDF work	29/11/2017
AIP news post about MACS1423-z7p6 on Facebook and Twitter	11/04/2017
Preparation and Participation at AIP Open House Day	23/09/2016
'Ask-an-Astronomer' session following public talk at High-z Malta conference	21/07/2016
Press release on SN Refsdal in 'The Current' at UCSB	05/03/2015
Assisting at ' Cultural Night of Copenhagen ', Dark Cosmology Center	12/10/2007
Presenting dark matter science to high-school classes, Dark Cosmology Center	08/11/2007
Co-organizer and tutor, introduction to new students, University of Copenhagen	2005 & 2006

Teaching & Supervision

Guest lecturer on ' Galaxies and Cosmology ' by Prof. L. Wisotzki and C. Pfrommer	25/06/2019 & 27/06/2019
PHY-765 SS19 Gravitational Lensing, University of Potsdam, course page	10/04/2019 - 17/07/2019
Supervisor for F. van Donkelaar's B.Sc. Thesis, University of Twente	25/02/2019 - 24/06/2019

PHY-765 SS18 Gravitational Lensing, University of Potsdam, course page	11/04/2018 - 18/07/2018
Tutoring middle school interns, AIP	2017 - present
Supervisor for F. van Donkelaar's Personal Pursuit, University of Twente	01/12/2016 - 01/08/2017
Guest lecturer on 'Astro 2' by Prof. T. Treu	14/05/2013 & 23/05/2013
Tutor on the course 'FP30 - CCD photometry in modern astronomy'	14/02/2011 - 01/04/2011
Co-supervisor on M. Knecht's bachelor thesis, University of Heidelberg	09/08/2010 - 02/11/2010

Invited Talks

'Probing high-redshift galaxy properties with UV emission lines' STScI Galaxy Journal Club (remotely) – Baltimore, US Meeting URL , abstract	17/04/2020
'GLASS-ERS: a JWST exploration of galaxy formation and evolution behind A2744' EWASS2018 – Liverpool, UK Meeting URL , PDF	04/04/2018
'GLASS: Physical Parameters at the EoR and Metallicity Maps out to $z \sim 2$' Lorentz Center – Leiden, Netherlands Meeting URL	26/10/2017
'Searching for rest-frame UV lines in the Early Universe with GLASS and MUSE' ESO Vitacura, Santiago, Chile Seminar URL	25/05/2017
'GLASS: Spectroscopy of a Lens-Magnified Early Universe' The growth of galaxies in the Early Universe - III – Sexten, Italy Meeting URL	20/01/2017
'Highlights from GLASS: Probing Galaxy Evolution from Redshift 0 to 8 with Slitless HST Spectroscopy of Lensing Clusters' Centre de Recherche Astrophysique de Lyon (CRAL) Seminar – Saint-Genis-Laval, Lyon, France Seminar URL	14/10/2016
'The Grism Lens-Amplified Survey From Space (GLASS): Grism Spectroscopy of Clusters and The Early Universe' Census, Evolution, Physics meeting – Yale, Connecticut, US Meeting URL , PDF	16/11/2015
'The Epoch of Reionization: Observing Galaxies in Their Cradle' Frank N. Bash Symposium 2015, New Horizons in Astronomy – Austin, Texas, US Meeting URL , Proceeding: PoS(BASH2015)014	20/10/2015
'The Grism Lens-Amplified Survey From Space (GLASS): HST Grism Spectroscopy of the HFF' FM 22: The Frontier Fields: Transforming our understanding of cluster and galaxy evolution, XXIX IAU General Assembly – Honolulu, Hawaii, US Meeting URL , ADS , Proceedings IAU Symposium, 11(A29B), 768-771	03/08/2015
'The Brightest of Reionizing Galaxies (BoRG) survey: The $z \sim 8$ luminosity function and spectroscopic follow-up' Cosmology Seminar, University of California Davis – Davis, CA, USA Seminar URL	21/11/2013

Observing experience

6 nights, MUSE on VLT, Chile	Dec. 2018
4 half nights, MUSE on VLT, Chile	May 2017
2 nights, Kast on Lick, CA, USA	Nov. 2013
1 night, Kast on Lick, CA, USA (remotely)	Sep. 2013
1 night, MOSFIRE on Keck, HI, USA	May 2013
3 nights, MOSFIRE on Keck, HI, USA	Apr. 2013
2 half nights, MOSFIRE on Keck, HI, USA (remotely)	Jan. 2013
4 nights, The Nordic Optical Telescope 2.2m, La Palma, Spain	Apr. 2007

Publications

- ORCID: 0000-0002-3418-7251
- Number of first-author refereed publications: 10
- Number of co-authored refereed publications: 82
- Number of co-authored non-refereed publications (ESO Messenger): 1
- First-author h-index based on [ADS citation count](#): 8
- h-index based on [ADS citation count](#): 34
- i10-index based on [ADS citation count](#): 70
93. ‘**MusE GAs Flow and Wind (MEGAFLOW) VI. A study of CIV and MgII absorbing gas surrounding [OII] emitting galaxies**’
I. Schroetter, N. F. Bouche, ..., **Kasper B. Schmidt**, et al.
[2020, Submitted to MNRAS, ArXiv:2012.04935](#)
 92. ‘**The Size and Pervasiveness of Ly α -UV Spatial Offsets in Star-Forming Galaxies at $z \sim 6$** ’
B. C. Lemaux, S. Fuller, ..., **Kasper B. Schmidt**, et al.
[2020, Submitted to MNRAS, ArXiv:2007.01310](#)
 91. ‘**An Atlas of MUSE Observations towards Twelve Massive Lensing Clusters**’
J. Richard, A. Claeysens, ..., **Kasper B. Schmidt**, et al.
[2020, Accepted by A&A, ArXiv:2009.09784](#)
 90. ‘**MUSE observations towards the lensing cluster A2744: Intersection between the LBG and LAE populations at $z \sim 3$ -7**’
G. de la Vieuville, J. Richard, ..., **Kasper B. Schmidt**, et al.
[2020, A&A, 644, A39](#)
 89. ‘**The MUSE Hubble Ultra Deep Field Survey XV. The mean rest-UV spectra of Ly α emitters at $z > 3$** ’
A. Feltre, M. V. Maseda, ..., **Kasper B. Schmidt**, et al.
[2020, A&A, 641, A118](#)
 88. ‘**First Census of Sub-kiloparsec Resolution Metallicity Gradients in Star-forming Galaxies at Cosmic Noon from HST Slitless Spectroscopy**’
Xin Wang, Tucker A. Jones, ..., **Kasper B. Schmidt**, et al.
[2020, ApJ, 900, 183](#)
 87. ‘**The KMOS Lens-Amplified Spectroscopic Survey (KLASS): Kinematics and clumpiness of low-mass galaxies at cosmic noon**’
M. Girard, C. Mason, ..., **Kasper B. Schmidt**, et al.
[2020, MNRAS, 497, 173](#)
 86. ‘**The MUSE Hubble Ultra Deep Field Survey XIV. The evolution of the Ly α emitter fraction from $z = 3$ to $z = 6$** ’
H. Kusakabe, J. Blaizot, ..., **Kasper B. Schmidt**, et al.
[2020, A&A, 638, A12](#)
 85. ‘**Spectroscopically Confirmed Lyman-Alpha Emitters from Redshift 5 to 7 Behind Ten Galaxy Cluster Lenses**’
S. Fuller, B. C. Lemaux, ..., **Kasper B. Schmidt**, et al.
[2020, ApJ, 896, 156](#)
 84. ‘**The MUSE Hubble Ultra Deep Field Survey XIII. Spatially resolved spectral properties of Lyman- α haloes around star-forming galaxies at $z > 3$** ’
F. Leclercq, R. Bacon, ..., **Kasper B. Schmidt**, et al.
[2020, A&A, 635, A82](#)
 83. ‘**Elevated ionizing photon production efficiency in faint high-equivalent-width Lyman- α emitters**’
M. Maseda, R. Bacon, ..., **Kasper B. Schmidt**, et al.
[2020, MNRAS, 493, 5120](#)

82. ‘The Grism Lens-Amplified Survey from Space (GLASS). XIII. G800L optical spectra from the parallel fields’
L. Abramson, G. Brammer, **Kasper B. Schmidt**, et al.
[2020, MNRAS, 493, 952](#)
81. ‘Red & Dead CANDELS: massive passive galaxies at the dawn of the Universe’
E. Merlin, F. Fortuni, ..., **Kasper B. Schmidt**
[2019, MNRAS, 490, 3](#)
80. ‘KLASS – The Role of Low-Mass Galaxies from Cosmic Dawn to Cosmic Noon’
A. Fontana, C. Mason, ..., **Kasper B. Schmidt**, et al.
[2019, ESO Messenger, 176, 33](#)
79. ‘Discovery of Strongly Inverted Metallicity Gradients in Dwarf Galaxies at $z \sim 2$ ’
Xin Wang, Tommaso Treu, ..., **Kasper B. Schmidt**, et al.
[2019, ApJ, 882, 94](#)
78. ‘Three Dimensional Optimal Spectral Extraction (TDOSE) from Integral Field Spectroscopy’
Kasper B. Schmidt, L. Wisotzki, T. Urrutia et al.
[2019, A&A, 628, A91](#)
77. ‘Hubble Frontier Field Photometric Catalogues of Abell 370 and RXC J2248.7-4431: Multi-wavelength photometry, photometric redshifts, and stellar properties’
Maruša Bradač, K.-H. Huang, ..., **Kasper B. Schmidt**, et al.
[2019, MNRAS, 489, 99](#)
76. ‘The mean $H\alpha$ EW and Lyman-continuum photon production efficiency for faint $z \approx 4 - 5$ galaxies’
Daniel Lam, Rychard Bouwens, ..., **Kasper B. Schmidt**, et al.
[2019, A&A, 627, A164](#)
75. ‘Constraining the neutral fraction of hydrogen in the IGM at redshift 7.5’
Austin Hoag, Maruša Bradač, ..., **Kasper B. Schmidt**, et al.
[2019, ApJ, 878, 1](#)
74. ‘Constraining Lyman-alpha spatial offsets at $3 < z < 5.5$ from VANDELS slit’
A. Hoag, T. Treu, ..., **Kasper B. Schmidt**, et al.
[2019, MNRAS, 488, 706](#)
73. ‘Discovery of an old nova remnant in the Galactic globular cluster M 22’
F. Göttgens, P. M. Weilbacher, ..., **Kasper B. Schmidt**, et al.
[2019, A&A, 626, A69](#)
72. ‘Probing 3D Structure with a Large MUSE Mosaic: Extending the Mass Model of Frontier Field Abell 370’
David J. Lagattuta, J. Richard, ..., **Kasper B. Schmidt**, et al.
[2019, MNRAS, 485, 3738](#)
71. ‘Inferences on the Timeline of Reionization at $z \sim 8$ From the KMOS Lens-Amplified Spectroscopic Survey’
Charlotte Mason, Adriano Fontana, ..., **Kasper B. Schmidt**, et al.
[2019, MNRAS, 485, 3947](#)
70. ‘The MUSE-Wide Survey: Survey Description and First Data Release’
Tanya Urrutia, Lutz Wisotzki, ..., **Kasper B. Schmidt**, et al.
[2019, A&A, 624, A141](#)
69. ‘The MUSE-Wide Survey: A determination of the Lyman α emitter luminosity function at $3 < z < 6$ ’
Christian Herenz, Lutz Wisotzki, ..., **Kasper B. Schmidt**, et al.
[2019, A&A, 621, A107](#)

68. **‘Nearly all the sky is covered by Lyman-alpha emission around high redshift galaxies’**
Lutz Wisotzki, Roland Bacon ..., **Kasper B. Schmidt**, et al.
[2018, Nature, 562, 229](#)
67. **‘The bright-end galaxy candidates at $z \sim 9$ from 79 independent HST fields’**
Takahiro Morishita, Michele Trenti, ..., **Kasper B. Schmidt**, et al.
[2018, ApJ, 867, 150](#)
66. **‘Mass and Light of Abell 370: A Strong and Weak Lensing Analysis’**
Victoria Strait, Maruša Bradač, ..., **Kasper B. Schmidt**, et al.
[2018, ApJ, 868, 129](#)
65. **‘The MUSE Hubble UDF Survey XII. MgII emission and absorption in star-forming galaxies’**
Anna Feltre, Roland Bacon, ..., **Kasper B. Schmidt**, et al.
[2018, A&A, 617, A62](#)
64. **‘MUSE Spectroscopic Identifications of Ultra-Faint Emission Line Galaxies with $M_{UV} \sim -15$ ’**
Michael Maseda, Roland Bacon, ..., **Kasper B. Schmidt**, et al.
[2018, ApJ, 865, L1](#)
63. **‘Mass Modeling of Frontier Fields Cluster MACS1149 Using Strong and Weak Lensing’**
Emily Q. Finney, Maruša Bradač, ..., **Kasper B. Schmidt**, et al.
[2018, ApJ, 859, 58](#)
62. **‘Recovering the systemic redshift of galaxies from their Lyman-alpha line profile’**
Anne Verhamme, Thibault Garel, ..., **Kasper B. Schmidt**, et al.
[2018, MNRAS, 478, L60](#)
61. **‘Metal Deficiency in Two Massive Dead Galaxies at $z \sim 2$ ’**
Takahiro Morishita, Louis Abramson, ..., **Kasper B. Schmidt**, et al.
[2018, ApJ, 856, L4](#)
60. **‘Kinematics, Turbulence and Star Formation of $z \sim 1$ Strongly Lensed Galaxies seen with MUSE’**
Vera Particio, Johan Richard, ..., **Kasper B. Schmidt**, et al.
[2018, MNRAS, 477, 18](#)
59. **‘Climbing to the top of the galactic mass ladder: evidence for frequent prolate-like rotation among the most massive galaxies’**
Davor Krajnovic, Eric Emsellem, ..., **Kasper B. Schmidt**, et al.
[2018, MNRAS, 477, 5327](#)
58. **‘Extreme magnification of an individual star at redshift 1.5 by a galaxy-cluster lens’**
Patrick Kelly, Jose M. Diego, ..., **Kasper B. Schmidt**, et al.
[2018, Nature Astronomy, 2, 334](#)
57. **‘Two Peculiar Fast Transients in a Strongly Lensed Host Galaxy’**
Steven Rodney, Italo Balestra, ..., **Kasper B. Schmidt**, et al.
[2018, Nature Astronomy, 2, 324](#)
56. **‘A free-form lensing model of A370 revealing stellar mass dominated BCGs, in Hubble Frontier Fields images.’**
Jose M. Diego, **Kasper B. Schmidt**, Tom Broadhurst, et al.
[2018, MNRAS, 473, 4279](#)
55. **‘Strong lensing analysis of Abell 2744 with MUSE and Hubble Frontier Fields images..’**
Guillaume Mahler, Johan Richard, ..., **Kasper B. Schmidt**, et al.
[2018, MNRAS, 473, 663](#)
54. **‘The MUSE-Wide survey: A measurement of the $Ly\alpha$ emitting fraction among $z > 3$ galaxies’**
Joseph Caruana, Lutz Wisotzki, ..., **Kasper B. Schmidt**, et al.
[2018, MNRAS, 473, 30](#)

53. **‘HST Grism Observations of a Gravitationally Lensed Redshift 10 Galaxy’**
Austin Hoag, Maruša Bradač, ..., **Kasper B. Schmidt**, et al.
[2018, ApJ, 854, 39](#)
52. **‘The Grism Lens-Amplified Survey from Space (GLASS). XII. Spatially Resolved Galaxy Star Formation Histories and True Evolutionary Paths at $z > 1$ ’**
Louis. E. Abramson, Andrew B. Newman, ..., **Kasper B. Schmidt**, et al.
[2018, ApJ, 156, 29](#)
51. **‘The MUSE Hubble Ultra Deep Field Survey: IV. Global properties of C III] emitters’**
Michael Maseda, Jarle Brinchmann, ..., **Kasper B. Schmidt**, et al.
[2017, A&A, 608, A4](#)
50. **‘The MUSE-Wide Survey: A first catalogue of 831 emission line galaxies’**
Edmund C. Herenz, Tanya Urrutia, ..., **Kasper B. Schmidt**, et al.
[2017, A&A, 606, A12](#)
49. **‘Characterizing Intra-cluster light at $z \sim 0.5$ in the Hubble Frontier Fields’**
Takahiro Morishita, Louis Abramson, ..., **Kasper B. Schmidt**, et al.
[2017, ApJ, 846, 139](#)
48. **‘Spectroscopic Confirmation of an Ultra-Faint Galaxy at the Epoch of Reionization’**
Austin Hoag, Maruša Bradač, ..., **Kasper B. Schmidt**, et al.
[2017, Nature Astronomy 1, 90](#)
47. **‘The MUSE-Wide Survey: Detection of a Clustering Signal from Ly α Emitters at $3 < z < 6$ ’**
Catrina Diener, Lutz Wisotzki, **Kasper B. Schmidt**, et al.
[2017, MNRAS, 471, 3186](#)
46. **‘Probing dark matter substructure in the gravitational lens HE0435-1223 with the WFC3 grism’**
Anna Nierenberg, T. Treu, ..., **Kasper B. Schmidt**, et al.
[2017, MNRAS, 471, 2224](#)
45. **‘The Grism Lens-Amplified Survey from Space (GLASS). XI. Detection of CIV in Multiple Images of $z = 6.11$ Ly α Emitter Behind RXCJ2248.7-4431’**
Kasper B. Schmidt, Kuang-Han Huang, Tommaso Treu et al.
[2017, ApJ, 839, 17](#)
44. **‘Lens Modeling Abell 370: Crowning the Final Frontier Field with MUSE’**
David J. Lagattuta, J. Richard, ..., **Kasper B. Schmidt**, et al.
[2017, MNRAS, 469, 3946](#)
43. **‘The Grism Lens-Amplified Survey from Space (GLASS) X. Sub-kpc resolution gas-phase metallicity maps at cosmic noon behind the Hubble Frontier Fields cluster MACS1149.6+2223’**
Xin Wang, Tucker A. Jones, ..., **Kasper B. Schmidt**, et al.
[2017, ApJ, 837, 89](#)
42. **‘First Results from the KMOS Lens-Amplified Spectroscopic Survey (KLASS): Kinematics of Lensed Galaxies at Cosmic Noon’**
Charlotte A. Mason, Tommaso Treu, ..., **Kasper B. Schmidt**, et al.
[2017, ApJ, 838, 14](#)
41. **‘ALMA [CII] detection of a redshift 7 lensed galaxy behind RXJ1347.1-1145’**
Maruša Bradač, Diego Garcia-Appadoo, ..., **Kasper B. Schmidt**, et al.
[2017, ApJL, 836, L2](#)
40. **‘The Grism Lens-Amplified Survey from Space (GLASS). IX. The dual origin of low-mass cluster galaxies as revealed by new structural analyses’**
Takahiro Morishita, Louis Abramson, ..., **Kasper B. Schmidt**, et al.
[2017, ApJ, 835, 254](#)

39. ‘The Grism lens-amplified survey from space (GLASS). VIII. The influence of the cluster properties on H α emitter galaxies at $0.3 \leq z \leq 0.7$ ’
Benedetta Vulcani, Tommaso Treu, ..., Kasper B. Schmidt, et al.
[2017, ApJ, 837, 126](#)
38. ‘The Grism lens-amplified survey from space (GLASS). VII. The diversity of the distribution of star formation in cluster and field galaxies at $0.3 \leq z \leq 0.7$ ’
Benedetta Vulcani, Tommaso Treu, Kasper B. Schmidt, et al.
[2016, ApJ, 833, 178](#)
37. ‘MUSE Deep-Fields: The Ly α Luminosity Function in the Hubble Deep Field South at $2.91 < z < 6.64$.’
Alyssa B. Drake, Bruno Guiderdoni, ..., Kasper B. Schmidt
[2016, MNRAS 471 267](#)
36. ‘Galaxy candidates at $z \sim 10$ in archival data from the Brightest of Reionizing Galaxies (BoRG[z8]) survey’
Stephanie Bernard, Daniela Carrasco, ..., Kasper B. Schmidt, et al.
[2016, ApJ, 827, 76](#)
35. ‘Detection of Lyman-Alpha Emission From a Triply Imaged $z=6.85$ Galaxy Behind MACS J2129.4-0741’
Kuang-Han Huang, Brian C. Lemaux, Kasper B. Schmidt, et al.
[2016, ApJL, 823, L14](#)
34. ‘The Grism Lens-Amplified Survey from Space (GLASS). VI. Comparing the Mass and Light in MACSJ0416.1-2403 using Frontier Field imaging and GLASS spectroscopy’
Austin Hoag, Kuang-Han Huang, ..., Kasper B. Schmidt, et al.
[2016, ApJ, 831, 182](#)
33. ‘SN Refsdal: Classification as a Luminous and Blue SN 1987A-like Type II Supernova’
Patrik L Kelly, Gabriel Brammer, ..., Kasper B. Schmidt, et al.
[2016, ApJ, 831, 205](#)
32. ‘Bright galaxies at Hubble’s redshift detection frontier: Preliminary results and design from the redshift $z \sim 9 - 10$ BoRG pure-parallel HST survey’
Valentina Calvi, Michele Trenti, ..., Kasper B. Schmidt, et al.
[2016, ApJ, 817, 120](#)
31. ‘SN Refsdal: Photometry and Time Delay Measurements of the First Einstein Cross Supernova’
Steven A. Rodney, Louis-Gregory Strolger, ..., Kasper B. Schmidt, et al.
[2016, ApJ, 820, 50](#)
30. ‘The Grism Lens-Amplified Survey from Space (GLASS). III. A census of Ly α Emission at $z \gtrsim 7$ from *HST* Spectroscopy’
Kasper B. Schmidt, Tommaso Treu, Marusa Bradač, et al.
[2016, ApJ, 818, 38](#)
29. ‘Spitzer Ultra Faint Survey Program (SURFS UP). II. IRAC-Detected Lyman-Break Galaxies at $6 < z < 10$ Behind Strong-Lensing Clusters’
Kuang-Han Huang, Marusa Bradač, ..., Kasper B. Schmidt, et al.
[2016, ApJ, 817, 11](#)
28. ‘Deja Vu All Over Again: The Reappearance of Supernova Refsdal’
Patrik. L. Kelly, Steven A Rodney, ..., Kasper B. Schmidt, et al.
[2016, ApJL, 819, L8](#)
27. ‘Refsdal’ meets Popper: comparing predictions of the re-appearance of the multiply imaged supernova behind MACS1149.5+2223
Tommaso Treu, Gabriel B. Brammer, ..., Kasper B. Schmidt, et al.
[2016, ApJ, 817, 60](#)

26. ‘The Grism Lens-Amplified Survey from Space (GLASS). V. Extent and Spatial Distribution of Star Formation in $z \sim 0.5$ Cluster Galaxies’
Benedetta Vulcani, Tommaso Treu, ..., Kasper B. Schmidt, et al.
[2015, ApJ, 814, 161](#)
25. ‘The Grism Lens-Amplified Survey from Space (GLASS). IV. Mass reconstruction of the lensing cluster Abell 2744 from frontier field imaging and GLASS spectroscopy’
Xin Wang, Austin Hoag, ..., Kasper B. Schmidt, et al.
[2015, ApJ, 811, 29](#)
24. ‘The Grism Lens-Amplified Survey from Space (GLASS). II. Gas-Phase Metallicity and Radial Gradients in an Interacting System at $z \sim 2$ ’
Tucker Jones, Xin Wang, Kasper B. Schmidt, et al.
[2015, ApJ, 149, 107](#)
23. ‘The Grism Lens-Amplified Survey from Space (GLASS). I. Survey Overview and First Data Release’
Tommaso Treu, Kasper B. Schmidt, Gabriel B. Brammer, et al.
[2015, ApJ, 114, 21](#)
22. ‘A spectroscopically confirmed $z = 1.327$ galaxy-scale deflector magnifying a $z \sim 8$ Lyman-break galaxy in the Brightest of Reionizing Galaxies survey’
Robert Barone-Nugent, Allesandro Sonnenfeld, ..., Kasper B. Schmidt, et al.
[2015, MNRAS 453, 3068](#)
21. ‘Quasar Classification Using Color and Variability’
Christina M. Peters, Gordon T. Richards, ..., Kasper B. Schmidt, et al.
[2015, ApJS, 811, 2](#)
20. ‘RCS2 J232727.6-020437: An Efficient Cosmic Telescope at $z = 0.6986$ ’
Austin Hoag, Marusa Bradač, ..., Kasper B. Schmidt, et al.
[2015, ApJ, 813, 1](#)
19. ‘Correcting the $z \sim 8$ Galaxy Luminosity Function For Gravitational Lensing Magnification Bias’
Charlotte Mason, Tommaso Treu, Kasper B. Schmidt, et al.
[2015, ApJ, 805, 79](#)
18. ‘The Impact of Strong Gravitational Lensing on Observed Lyman-Break Galaxy Numbers at $4 < z < 8$ in the GOODS and the XDF Blank Fields’
Robert Barone-Nugent, Stuart Wyithe, ..., Kasper B. Schmidt, et al.
[2015, MNRAS, 450, 1224](#)
17. ‘Multiple Images of a Highly Magnified Supernova Formed by an Early-Type Cluster Galaxy Lens’
Patrick L. Kelly, Steven A. Rodney, ..., Kasper B. Schmidt, et al.
[2015, Science, 347, 1123](#)
16. ‘The Luminosity Function at $z \sim 8$ from 97 Y-band Dropouts: Inferences About Reionization’
Kasper B. Schmidt, Tommaso Treu, Michele Trenti, et al.
[2014, ApJ, 786, 57](#)
15. ‘Through The Looking GLASS: HST Spectroscopy of Faint Galaxies Lensed by the Frontier Field Cluster MACSJ0717.5+3745’
Kasper B. Schmidt, Tommaso Treu, Gabriel B. Brammer, et al.
[2014, ApJ, 782, L36](#)
14. ‘The Changing $\text{Ly}\alpha$ Optical Depth in the Range $6 < z < 9$ from MOSFIRE Spectroscopy of Y-dropouts’
Tommaso Treu, Kasper B. Schmidt, Michele Trenti, et al.
[2013, ApJ, 775, L29](#)

13. ‘The Spatial Extent and Distribution of Star Formation in 3D-HST Mergers at $z \sim 1.5$ ’
Kasper B. Schmidt, Hans-Walter Rix, Elisabete da Cunha, et al.
[2013, MNRAS, 432, 285](#)
12. ‘The Radial Distribution of Star Formation in Galaxies at $z \sim 1$ From the 3D-HST Survey’
Erica J. Nelson, Pieter G. van Dokkum, ... , Kasper B. Schmidt
[2013, ApJ, 763, L16](#)
11. ‘Large-Scale Star Formation-Driven Outflows at $1 < z < 2$ in the 3D-HST Survey’
Britt F. Lundgren, Gabriel B. Brammer, ... , Kasper B. Schmidt, et al.
[2012, ApJ, 760, 49](#)
10. ‘3D-HST Grism Spectroscopy of a Gravitationally Lensed, Low-metallicity Starburst Galaxy at $z = 1.847$ ’
Gabriel B. Brammer, Ruben Sanchez-Janssen, ... , Kasper B. Schmidt, et al.
[2012, ApJ, 758, L17](#)
9. ‘H α Equivalent Widths from the 3D-HST Survey: Evolution with Redshift and Dependence on Stellar Mass’
Mattia Fumagalli, Shannon Patel, ... , Kasper B. Schmidt, et al.
[2012, ApJ, 757, L22](#)
8. ‘3D-HST: A wide-field grism spectroscopic survey with the Hubble Space Telescope’
Gabriel B. Brammer, Pieter G. van Dokkum, ... , Kasper B. Schmidt, et al.
[2012, ApJS, 200, 13](#)
7. ‘Spatially resolved H α maps and sizes of 57 strongly star-forming galaxies at $z \sim 1$ from 3D-HST: evidence for rapid inside-out assembly of disk galaxies’
Erica J. Nelson, Pieter G. van Dokkum, ... , Kasper B. Schmidt
[2012, ApJ, 747, L28](#)
6. ‘The Color Variability of Quasars’
Kasper B. Schmidt, Hans-Walter Rix, Joseph C. Shields, et al.
[2012, ApJ, 744, 147](#)
5. ‘First Results From the 3D-HST Survey: The Striking Diversity of Massive Galaxies at $z > 1$ ’
Pieter G. van Dokkum, Gabriel B. Brammer, ... , Kasper B. Schmidt, et al.
[2011, ApJ, 743, L15](#)
4. ‘Discovering the missing $2.2 < z < 3$ quasars by combining optical variability and optical/near-IR colors’
Xue-Bing Wu, Ran Wang, Kasper B. Schmidt, et al.
[2011, ApJ, 142, 78](#)
3. ‘Selecting Quasars by their Intrinsic Variability’
Kasper B. Schmidt, Philip J. Marshall, Hans-Walter Rix, et al.
[2010, ApJ 714, 1194](#)
2. ‘Dark Matter Angular Momentum Profile From the Jeans Equation’
Kasper B. Schmidt, Steen H. Hansen, Jin H. An, et al.
[2009, ApJ, 694, 893](#)
1. ‘Alas, the dark matter structures were not that trivial’
Kasper B. Schmidt, Steen H. Hansen, & Andrea Macciò
[2008, ApJ, 689, L33](#)

Conferences & Meetings

- MUSE Collaboration meeting** 26/10/2020 - 30/10/2020
Cyperspace/Zoom
Talk Contributions: ‘UV Emission Lines in MUSE-Wide/Deep’
- MUSE Collaboration meeting** 4/5/2020 - 8/5/2020
Cyperspace/Zoom
Talk Contributions: ‘UV Emission Lines in MUSE-Wide/Deep’
- MUSE Collaboration meeting** 4/11/2019 - 8/11/2019
Braga, Portugal
Talk Contributions: ‘Physical parameters from rest-frame UV emission lines for star forming galaxies in ~ 100 arcmin² of MUSE data’
- MUSE Collaboration meeting** 22/10/2018 - 26/10/2018
Chania, Greece
Talk Contributions: ‘Update on TDOSE development’
- MUSE Collaboration meeting** 18/06/2018 - 22/06/2018
Hendaye, France
- Intl. Conf.: EWASS2016** 3/4/2018 - 6/4/2018
Liverpool, UK
Talk Contributions: See invited talks above
- Intl. Conf.: Sakura CLAW** 26/03/2018 - 30/03/2018
Tokyo, Japan
Talk Contribution: ‘Probing the ISM at $z > 3$ with rest-frame UV emission from LAEs in MUSE-Wide’ [PDF](#)
- MUSE Collaboration meeting** 20/11/2017 - 24/11/2017
Volendam, Netherlands
*Talk Contributions: ‘Rest-Frame UV Emission Lines in MUSE Spectra’
‘JWST (Proposals) Seen From a MUSE GTO Targets Point of View’*
- Intl. Conf.: Characterizing Galaxies with Spectroscopy - view for JWST** 23/10/2015 - 27/10/2017
Leiden, Netherlands
*Talk Contribution: See invited talks above
Short Talk Contribution: ‘Ly α Emitter carbon lines in MUSE Wide’*
- MUSE Collaboration meeting** 5/6/2017 - 9/6/2017
Spineto, Italy
*Talk Contributions: ‘The MUSE-Wide survey: A measurement of the LAE fraction among $z > 3$ galaxies’
‘TDOSE: Three Dimensional Optimal Spectral Extraction’*
- Intl. Conf.: SnowCLAW 2017** 20/03/2015 - 24/03/2017
Snowbird, UT, USA
*Talk Contribution: ‘MUSE-Wide: A (Not So) Shallow Survey Mapping 1000
Ly α Emitters at $3 < z < 6$ with 100 MUSE Pointings’* [PDF](#)
Poster Contribution: ‘The $z > 5.5$ Universe Seen Through a Magnifying GLASS’ [PDF](#)
- GLASS Collaboration meeting** 13/3/2017 - 17/3/2017
UCLA, Los Angeles, USA
*Talk Contribution: ‘GLASS 2017 Updates: 1) Updates to v001 Data Release
2) Update on $z > 5.5$ LAE search 3) CIV Emitter Behind RXJ2248’*
- Intl. Conf.: The growth of galaxies in the Early Universe - III** 18/1/2017 - 21/1/2017

Sexten Center for Astrophysics, Sexten, Italy
Talk Contributions: See invited talks above

MUSE Collaboration meeting 7/11/2016 - 11/11/2016

Semlin, Germany

Talk Contribution: 'Looking for Rest-Frame UV Lines in MUSE-Wide Ly α Emitters'

Intl. Conf.: Signals From the Deep Past 18/7/2016 - 22/7/2016

Valletta, Malta

Talk Contribution: 'Studying the Cosmic Dawn Through a Magnifying GLASS'

Intl. Conf.: EWASS2016 4/7/2016 - 8/7/2016

Athens, Greece

Talk Contribution: 'GLASS: Probing the Epoch of Reionization with HST Spectroscopy'

GLASS Collaboration meeting 9/5/2016 - 13/5/2016

UCLA, Los Angeles, USA

Talk Contribution: 'GLASS 2016 Updates: I) Public Data Release v001, II) LBGs at $z > 6$ '

Intl. Conf.: Census, Evolution, Physics 16/11/2015 - 19/11/2015

Yale, Connecticut, USA

Talk Contributions: See invited talks above

Intl. Conf. Frank N. Bash Symposium 2015, New Horizons in Astronomy 18/10/2015 - 20/10/2015

Austin, Texas, USA

Talk Contributions: See invited talks above

Intl. Conf.: XXIX IAU General Assembly 03/08/2014 - 14/08/2015

Honolulu, Hawaii, USA

Talk Contributions: FM22 - see invited talks above

Session319 - 'Probing Reionization at $z \gtrsim 7$ with HST's NIR Grisms', [ADS](#), [PDF](#)

[Proceedings IAU Symposium No. 319, 2015](#)

GLASS Collaboration meeting 4/5/2015 - 7/5/2015

Monte Porzio, Rome, Italy

Talk Contributions: 'The GLASS data' &

'Ly α at $z \gtrsim 7$ in the First Six GLASS Clusters'

Intl. Conf.: sxhz 01/04/2015 - 03/04/2015

Austin, TX, USA

Talk Contribution: 'GLASS: Probing the state of the reionization epoch through HST spectroscopy' [PDF](#)

Intl. Conf.: DEEP 15 15/03/2015 - 19/03/2015

Sintra, Potrugal

Talk Contribution: 'The Grism Lens-Amplified Survey from Space (GLASS):

Ly α emitters at the epoch of reionization' [PDF](#)

Intl. Conf.: Hubble Frontier Fields @ Yale 12/11/2014 - 14/11/2014

Caltech, Pasadena, CA, USA

Talk Contribution: 'HST Grism Spectroscopy of the HFF with GLASS: Ly α Emitters at $z > 6$ ' [PDF](#)

Keck Science Meeting 02/10/2014 - 03/10/2014

Caltech, Pasadena, CA, USA

Talk Contribution: 'Galaxies at The EoR: The Synergy Between HST and Keck-MOSFIRE'

Intl. Conf.: The Distant Universe 02/07/2014 - 07/07/2014

Cefalu, Italy,

Talk Contribution: 'GLASS: The Universe at $z > 6$ and Resolved Metallicity Maps at $z \sim 2$ ' [PDF](#)

GLASS Collaboration meeting, organizer

28/4/2014 - 2/5/2014

UCSB, Santa Barbara, CA, USA

Talk Contributions: 'The Reduction Pipeline and Data',

'Glass Inspection GUI: intro and workshop', &

'The High-Redshift Universe with GLASS'

Intl. Conf.: 223rd AAS meeting

05/01/2014 - 09/01/2014

Washington D.C., MD, USA

Talk Contribution: 'BoRG: Luminosity Function and Spectroscopic Follow-Up of Galaxies at $z \sim 8$ ' [ADS](#)

Poster Contribution: 'First results from the HST Grism Lens-Amplified Survey from Space' [PDF](#)

ELIXIR annual meeting

12/11/2012 - 13/11/2012

Leiden University, The Netherlands

Talk Contribution: 'Quasar Variability and Star Formation in Mergers'

ELIXIR School: What Will It Look Like to Observe with NIRSpec?

26/09/2012 - 27/09/2012

ESTEC, Noordwijk, The Netherlands

3D-HST meeting

07/05/2012 - 09/05/2012

Videocon., MPIA, Heidelberg, Germany

Talk Contribution: 'The Spatial Extent of Star Formation in 3D-HST Mergers at $z \sim 1.5$ '

Intl. Conf.: 'The Physics of Astronomical Transients'

22/01/2012 - 27/01/2012

Aspen Center for Physics, Aspen, CO, USA

Talk Contribution: 'Quasar Variability - Selection of and Physics in Quasars'

Intl. Conf.: 219th AAS meeting

08/01/2012 - 12/01/2012

Austin, TX, USA

Dissertation Talk Contribution: 'Quasar Variability - Selection of and Physics in Quasars' [ADS](#)

Intl. Conf.: 'Watching Galaxies Grow Up'

05/12/2011 - 09/12/2011

Ringberg Castle, Kreuth, Germany

Invited Talk Contribution: 'Star Formation in Mergers at $z \sim 1.5$ '

MPIA Galaxy & Cosmology Department Retreat

17/10/2011 - 19/10/2011

Neuwied, Germany

Talk Contribution: 'Star Formation Maps and Mergers at $z \sim 1.5$ '

3D-HST meeting

10/10/2011 - 14/10/2011

University of Leiden, Leiden, The Netherlands

Talk Contribution: 'Star Formation in High- z Mergers'

ELIXIR annual meeting

05/10/2011 - 06/10/2011

CAB - Centro de Astrobiología, Madrid, Spain

Talk Contribution: 'Frontiers of Galaxy Formation: 3D Spectroscopy and Time-Domain Observations'

Intl. Conf.: 'Galaxy Formation'

18/06/2011 - 22/06/2011

Durham University, Durham, UK

Poster Contribution: 'Emission Line Maps of Galaxies at $z \sim 1.7$ ' [PDF](#)

ELIXIR School: How a Space Project Works

20/05/2011 - 21/05/2011

ESTEC, Noordwijk, The Netherlands

3D-HST meeting

06/05/2011 - 12/05/2011

University of Yale, New Haven, CT, USA

Talk Contribution: 'Emission Line Mapping of (Potential) Mergers'

3D-HST meeting

03/03/2011 - 07/03/2011

University of Leiden, Leiden, The Netherlands

Talk Contribution: 'Emission Line Maps of $z \sim 1$ Galaxies'

Slitless Spectroscopy Workshop

15/11/2010 - 16/11/2010

STScI, Baltimore, MD, USA

ELIXIR annual meeting

03/11/2010 - 05/11/2010

IAP, Paris, France

Talk Contribution: 'Galaxy Dynamics with NIRSpec'

3D-HST meeting

13/09/2010 - 15/09/2010

University of Yale, New Haven, CT, USA

Summer School: 'First Stars & Cosmic Reionization'

06/09/2010 - 10/09/2010

IMPRS Heidelberg, Heidelberg, Germany

Pan-STARRS1 Science Consortium Meeting

30/08/2010 - 03/09/2010

Queens University, Belfast, Northern Ireland

Talk Contribution: '(QSO) Variability Selection Training'

Intl. Conf.: 'The First Galaxies, Quasars and Gamma-Ray Bursts'

06/06/2010 - 10/06/2010

Pennsylvania State University, State College, PA, USA

Poster Contribution: 'Selecting Quasars via Variability' [PDF](#)

ELIXIR School: 'The JWST/NIRSpec project'

31/05/2010 - 02/06/2010

EADS/Astrium GmbH, Ottobrunn, Germany

IMPRS science retreat

26/05/2010 - 28/05/2010

Cologne, Germany

Talk Contribution: 'Quasar Candidate Selection Via Variability'

MPIA Galaxy & Cosmology Department Retreat

21/04/2010 - 23/04/2010

Maulbronn, Germany

Talk Contribution: 'QSO Variability Selection'

ELIXIR annual meeting

10/12/2009 - 11/12/2009

University of Oxford, UK

Talk Contribution: 'Quasar Variability and High- z Mergers'

IAU Symposium 267: 'Evolution of Galaxies and Central Black Holes'

10/08/2009 - 14/08/2009

IAU XXVII General Assembly, Rio de Janeiro, Brazil

Poster Contribution: 'Detecting Quasars by their Variability' [PDF](#)

[Proceedings IAU Symposium No. 267, 2009, p. 265](#)

Pan-STARRS IPP workshop

18/05/2009 - 22/05/2009

Institute for Astronomy, University of Hawaii

Intl. Conf.: 'Classification and Discovery in Large Astronomical Surveys'

14/10/2008 - 17/10/2008

Max Planck Institute for Astronomy, Heidelberg

Intl. Conf.: 'Dark Matter Workshop'

20/08/2007 - 24/08/2007

Dark Cosmology Center, University of Copenhagen

Talks/Presentations

‘The Epoch of Reionization Through GLASS Spectroscopy at $z > 6$’ Astronomy Seminar, University of California Riverside, Riverside, CA, USA	19/11/2014
‘Investigating the Epoch of Reionization with Keck and GLASS Spectroscopy’ Carnegie Colloquium, Carnegie Observatories, Pasadena, CA, USA	07/10/2014
‘GLASS: Dissecting Reionization and $z \sim 2$ Galaxies’ Coffee Talk, MPIA, Heidelberg, Germany	17/07/2014
‘GLASS: Probing Galaxies at the Epoch of Reionization ($z > 6$)’ Lunch Talk, Leiden Observatory, Leiden, The Netherlands	16/07/2014
‘GLASS: Probing Galaxies at the Epoch of Reionization ($z > 6$)’ Lunch Talk, Royal Observatory of Edinburgh, Edinburgh, Scotland	07/07/2014
‘GLASS: Probing Galaxies at the Epoch of Reionization ($z > 6$)’ Lunch Talk, DARK Cosmology Center, University of Copenhagen, Denmark	25/06/2014
‘The Brightest of Reionizing Galaxies (BoRG) survey: The $z \sim 8$ luminosity function and spectroscopic follow-up’ Cosmology Seminar, University of California Davis, Davis, CA, USA	21/11/2013
‘The Brightest of Reionizing Galaxies (BoRG) survey: The $z \sim 8$ luminosity function and spectroscopic follow-up with MOSFIRE’ Galaxy Formation Seminar, University of California Berkeley, Berkeley, CA, USA	19/11/2013
‘The Brightest of Reionizing Galaxies Survey: Luminosity Function at $z \sim 8$ and Spectroscopic Follow-Up’ Galaxy Evolution Seminar, Institute of Astronomy, Cambridge, UK	13/09/2013
‘Quasar Variability - Selection of and Physics in Quasars’ AGN Group Talk, STScI, Baltimore, MD, USA	27/01/2012
‘Star formation in Mergers at $z \sim 1.5$’ Galaxy Group Talk, STScI, Baltimore, MD, USA	27/01/2012
‘Quasar Variability - Selection of and Physics in Quasars’ Lunch Talk, University of California Santa Barbara, Santa Barbara, CA, USA	20/01/2012
‘Star formation in Galaxy Mergers at $z \sim 1.5$’ Lunch Talk, University of Washington, Seattle, WA, USA	17/01/2012
‘Quasar Variability - Selection of and Physics in Quasars’ Lunch Talk, Carnegie Observatories, Pasadena, CA, USA	06/01/2012
‘Selecting QSOs via variability (in PS1)’ Gaia classification meeting, MPIA, Heidelberg, Germany	02/02/2011
‘Finding Lenses With Quasar Variability’ LiHD - Lensing in Heidelberg. Monthly Gravitational Lensing Session, Heidelberg, Germany	31/03/2010
‘Variability Selection of Quasars’ MPIA, Heidelberg, Germany	10/02/2010

‘Finding Gravitationally lensed QSOs in Pan-STARRS (and SDSS)’ IMPRS seminar, University of Heidelberg, Germany	18/06/2009
‘Dark Matter Structures were not that Trivial’ Lunch Talk, University of California Santa Barbara, Santa Barbara, CA, USA	13/02/2009
‘Dark Matter Structures - Rotation and Jeans’ MPIA, Heidelberg, Germany	15/05/2008
‘Angular Momentum of Dark Matter Structures’ Dark Cosmology Centre, University of Copenhagen, Denmark	17/01/2008