

Kasper Borello Schmidt

Leibniz-Institut für Astrophysik Potsdam (AIP)
An der Sternwarte 16
14482 Potsdam, Germany
E-mail: kbschmidt@aip.de

Tel.(work) +49 (0) 331 7499 523
Tel.(cell) +49 (0) 152 2873 3805
Web: <http://kasperschmidt.github.io/>
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 09/11/2015 - 31/10/2021
Leibniz-Institut für Astrophysik Potsdam (AIP), Potsdam, Germany

Postdoctoral Researcher 01/09/2012 - 31/10/2015
University of California Santa Barbara (UCSB), CA, USA

Graduate Researcher 01/10/2008 - 31/08/2012
Max Planck Institute for Astronomy (MPIA), Heidelberg, Germany

Education

Ph.D. in astronomy (Dr. Rer. Nat.) 01/10 2008 - 09/07/2012
Max Planck Institute for Astronomy, Heidelberg, Germany
Thesis: *'Frontiers of Galaxy Evolution – Time-Domain Observations and 3D Spectroscopy'*
Supervisor: Prof. Dr. Hans-Walter Rix
Member of: *The International Max Planck Research School for Astronomy and Cosmic Physics at the University of Heidelberg (IMPRS-HD)*

M.Sc. in astronomy 01/07/2006 - 12/08/2008
Dark Cosmology Center, University of Copenhagen, Denmark
Thesis: *'Towards Understanding Dark Matter Structures'*
Supervisor: Dr. Steen H. Hansen

B.Sc. in astronomy 01/09/2003 - 30/06/2006
University of Copenhagen, Denmark
Thesis: *'The Inflationary Scenario in the Early Universe'*
Supervisor: Dr. Steen H. Hansen & Dr. Anja C. Andersen

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 - 2011

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

Publications

- ORCID: [0000-0002-3418-7251](https://orcid.org/0000-0002-3418-7251)
- Number of first-author refereed publications: 10
- Number of co-authored refereed publications: 76
- 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](#): 31
- i10-index based on [ADS citation count](#): 63
86. ‘Elevated ionizing photon production efficiency in faint high-equivalent-width Lyman- α emitters’
M. Maseda, R. Bacon, . . . , **Kasper B. Schmidt**, et al.
[2020, Accepted by MNRAS, ArXiv:2002.11117](#)
 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, Submitted to ApJ, ArXiv:2002.08952](#)
 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, Accepted by A&A, ArXiv:2002.05731](#)
 83. ‘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, Submitted to ApJ, ArXiv:1911.09841](#)
 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, Accepted by MNRAS, ArXiv:1906.00008](#)
 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 α 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 Krajinovic, 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 $\text{Ly}\alpha$ 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 $\text{Ly}\alpha$ 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 Ly α 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](#)

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

Invited Talks

‘ 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	14/10/2016

Seminar URL

- ‘The Grism Lens-Amplified Survey From Space (GLASS):
Grism Spectroscopy of Clusters and The Early Universe’** 16/11/2015
Census, Evolution, Physics meeting, Yale, Connecticut, US
[Meeting URL](#), [PDF](#)
- ‘The Epoch of Reionization: Observing Galaxies in Their Cradle’** 20/10/2015
Frank N. Bash Symposium 2015, New Horizons in Astronomy, Austin, Texas, US
[Meeting URL](#), [Proceeding: PoS\(BASH2015\)014](#)
- ‘The Grism Lens-Amplified Survey From Space (GLASS):
HST Grism Spectroscopy of the HFF’** 03/08/2015
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](#)
- ‘The Brightest of Reionizing Galaxies (BoRG) survey:
The $z \sim 8$ luminosity function and spectroscopic follow-up’** 21/11/2013
Cosmology Seminar, University of California Davis, Davis, CA, USA
[Seminar URL](#)

Conferences & Meetings

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

- ‘Quasar Variability - Selection of and Physics in Quasars’** 06/01/2012
Lunch Talk, Carnegie Observatories, Pasadena, CA, USA
- ‘Selecting QSOs via variability (in PS1)’** 02/02/2011
Gaia classification meeting, MPIA, Heidelberg, Germany
- ‘Finding Lenses With Quasar Variability’** 31/03/2010
LiHD - Lensing in Heidelberg. Monthly Gravitational Lensing Session, Heidelberg, Germany
- ‘Variability Selection of Quasars’** 10/02/2010
MPIA, Heidelberg, Germany
- ‘Finding Gravitationally lensed QSOs in Pan-STARRS (and SDSS)’** 18/06/2009
IMPRS seminar, University of Heidelberg, Germany
- ‘Dark Matter Structures were not that Trivial’** 13/02/2009
Lunch Talk, University of California Santa Barbara, Santa Barbara, CA, USA
- ‘Dark Matter Structures - Rotation and Jeans’** 15/05/2008
MPIA, Heidelberg, Germany
- ‘Angular Momentum of Dark Matter Structures’** 17/01/2008
Dark Cosmology Centre, University of Copenhagen, Denmark