

CURRICULUM VITAE

Dr. Kasper B. Schmidt

Contact Information

Kasper Borello Schmidt, [ORCID](#)
Leibniz-Institut für Astrophysik Potsdam (AIP)
An der Sternwarte 16
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Personal Information

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

Employment

Postdoctoral Researcher 09/11/2015 - present
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
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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
[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

PHY-765 SS19 Gravitational Lensing, University of Potsdam, [course page](#) 10/04/2018 - 17/07/2019
Supervisor for F. van Donkelaar’s B.Sc. Thesis, University of Twente 25/02/2019 - 14/06/2019
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
Substitute lecturer on ‘[Astro 2](#)’ for Prof. Tommaso 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 co-authored peer-reviewed publications: 80
- Number of first-author peer-reviewed publications: 10
- First-author h-index based on [ADS citation count](#): 8
- h-index based on [ADS citation count](#): 28
- i10-index based on [ADS citation count](#): 56
80. ‘**Three Dimensional Optimal Spectral Extraction (TDOSE) from Integral Field Spectroscopy**’
Kasper B. Schmidt, L. Wisotzki, T. Urrutia et al.
[2019, Accepted by A&A, ArXiv:1906.05891](#)
 79. ‘**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, Submitted to MNRAS, ArXiv:1906.01725](#)
 78. ‘**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.
[2019, Submitted to MNRAS, ArXiv:1906.00008](#)
 77. ‘**Constraining Lyman-alpha spatial offsets at $3 < z < 5.5$ from VANDELS slit**’
A. Hoag, T. Treu, . . . , Kasper B. Schmidt, et al.
[2019, Submitted to MNRAS, ArXiv:1905.09467](#)
 76. ‘**Discovery of an old nova remnant in the Galactic globular cluster M 22**’
F. Göttgens, P. M. Weibacher, . . . , Kasper B. Schmidt, et al.
[2019, Accepted by A&A, ArXiv:1904.11515](#)
 75. ‘**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](#)
 74. ‘**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, Submitted to A&A, ArXiv:1902.02786](#)
 73. ‘**Constraining the neutral fraction of hydrogen in the IGM at redshift 7.5**’
Austin Hoag, Maruša Bradač, . . . , Kasper B. Schmidt, et al.
[2019, Submitted to ApJ, ArXiv:1901.09001](#)
 72. ‘**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](#)
 71. ‘**Discovery of Strongly Inverted Metallicity Gradients in Dwarf Galaxies at $z \sim 2$** ’
Xin Wang, Tommaso Treu, . . . , Kasper B. Schmidt, et al.
[2018, ArXiv:1808.08800](#)
 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](#)

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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 $Ly\alpha$ 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](#)

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 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	21/11/2013

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](#)

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- 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

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- ‘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