Kasper Borello Schmidt

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E-mail:	kbschmidt@aip.de	ORCID:	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 - 30/04/2021
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 and University of 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, The Grism Lens-Amplified Survey from Space (GLASS)	2012 - Pres.
Team Member, BoRG Hubble Parallel Survey Group	2012 - Pres.
Team Member, MUSE GTO team	2016 - 2021
Referee, ApJ, MNRAS, Science	2010 - 2021
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 filament discovery in HUDF (see also CNN, EurekAlert!, and Forbes)	18/03/2021
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 release on MUSE Lyα 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' 17/04/2020
STScI Galaxy Journal Club (remotely) – Baltimore, US
Meeting URL, abstract

'GLASS-ERS: a JWST exploration of galaxy formation and evolution behind A2744' 04/04/2018
EWASS2018 – Liverpool, UK
Meeting URL, PDF

'GLASS: Physical Parameters at the EoR and Metallicity Maps out to $z \sim 2$' 26/10/2017
Lorentz Center – Leiden, Netherlands
Meeting URL

'Searching for rest-frame UV lines in the Early Universe with GLASS and MUSE' 25/05/2017
ESO Vitacura, Santiago, Chile
Seminar URL

'GLASS: Spectroscopy of a Lens-Magnified Early Universe' 20/01/2017
The growth of galaxies in the Early Universe - III – Sexten, Italy
Meeting URL

'Highlights from GLASS: Probing Galaxy Evolution from Redshift 0 to 8 with Slitless HST Spectroscopy of Lensing Clusters' 14/10/2016
Centre de Recherche Astrophysique de Lyon (CRAL) Seminar – Saint-Genis-Laval, Lyon, France
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

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:	11
Number of co-authored refereed publications:	87
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:	37
i10-index based on ADS citation count:	76

99. **'Disentangling the physical origin of emission line ratio offsets at high redshift with spatially resolved spectroscopy'**
J. Hirtenstein, T. Jones, ..., **Kasper B. Schmidt**, et al.
2021, Accepted by ApJ, ArXiv:2106.13810

98. **'The MUSE-Wide survey: Three-dimensional clustering analysis of Lyman-α emitters at $3.3 < z < 6$'**
Y. H. Alonso, M. Krumpe, ..., **Kasper B. Schmidt**, et al.
2021, Accepted by A&A, ArXiv:2107.03723

97. **'Recovery and Analysis of rest-frame UV emission lines in 2052 galaxies observed with MUSE at $1.5 < z < 6.4$'**
Kasper B. Schmidt, Josephine Kerutt, Lutz Wizotzki, et al.
2021, Accepted by A&A, ArXiv:2108.01713

96. **'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.
2021, MNRAS, 506, 1355

95. **'The Size and Pervasiveness of Lyα-UV Spatial Offsets in Star-Forming Galaxies at $z \sim 6$'**
B. C. Lemaux, S. Fuller, ..., **Kasper B. Schmidt**, et al.
2021, MNRAS, 504, 3662

94. **'Improving $z \sim 7 \sim 11$ Galaxy Property Estimates with JWST /NIRCam Medium-Band Photometry'**
G. Roberts-Borsani, T. Treu, ..., **Kasper B. Schmidt**, et al.
2021, ApJ, 910, 86

93. **'Ultra-faint [CII] emission in a redshift-2 gravitationally-lensed metal-poor dwarf galaxy'**
M. Rybak, W. Da Cunha, ..., **Kasper B. Schmidt**, et al.
2021, ApJ, 909, 130

92. **'The MUSE Extremely Deep Field: the Cosmic Web in Emission at High Redshift'**
8 R. Bacon, D. Mary, ..., **Kasper B. Schmidt**, et al.
2021, A&A 647, A107

91. **'An Atlas of MUSE Observations towards Twelve Massive Lensing Clusters'**
J. Richard, A. Claeyssens, ..., **Kasper B. Schmidt**, et al.
2021, A&A, 646, A83

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 Lyα 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 Lyα 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 Hα 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 Lyα 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 Lyα 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 $z = 6.11$ Lyα 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 Halpha 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 Lyα 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 Lyα 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 Lyα 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. **'Hα 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 Hα 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, Protugal
Talk Contributions: 'Physical parameters from rest-frame UV emission lines for star forming galaxies in $\sim$100 arcmin^2 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: 'Lyα 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 Lyα 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 Lyα 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' &
'Lyα at $z \gtrsim 7$ in the First Six GLASS Clusters'

Intl. Conf.: sxh$z$ 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): Lyα 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: Lyα 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, Gremany
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 Astrobiologa, 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∼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, Gremany
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 Symposion 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

'Varibaility Selection of Quasars' 10/02/2010
MPIA, Hedielberg, 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