

Tim Schrabback – Curriculum Vitae

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Nationality: German
Date of Birth: April 20th, 1978

Academic career and education

2017/12–date Akademischer Oberrat a.Z., Bonn University (senior research staff, fixed-term)
2011/12–2017/11 Akademischer Rat a.Z., Bonn University (research staff, fixed-term)
2010/11–2011/10 KIPAC Fellow, Stanford University
2007/11–2010/10 Postdoctoral Fellow, Leiden Observatory
2004/05–2007/10 PhD project at Bonn University, PhD: Feb 15, 2008 *summa cum laude*
Thesis: *Measuring cosmological weak lensing using HST/ACS*
Supervisors: Peter Schneider, Thomas Erben
1998/09–2004/03 Diploma in physics, Bonn University, Mar 25, 2004 (grade 1.1, “very good”)
1988–1997 High-school equivalent: Abitur with grade 1.0 (“very good”),
Goethe-Gymnasium Bad Ems

Professional skills (summary)

- Co-lead of the Organisational Unit “Shear” in the *Euclid* Consortium, which is tasked with the implementation of weak lensing shape measurement algorithms for the ESA space mission *Euclid*.
- Lead of the “Mass Modelling” work package in the *Euclid* Cluster Science Working Group
- Lead of the high-redshift cluster weak lensing follow-up campaign of the South Pole Telescope Collaboration
- Responsible for the high-redshift cluster weak lensing follow-up within the German eROSITA Consortium (eROSITA.DE); Co-chair of the joint cluster science working group of eROSITA.DE and the Hyper Suprime Cam (HSC) Weak Lensing Survey Collaboration
- I am leading a small research group (funded through my grants) at the Argelander-Institute for Astronomy working on weak lensing measurements and galaxy cluster studies with current members: Postdoc Martin Sommer and PhD students Florian Kleinebreil, Diana Scognamiglio & Hannah Zohren.
- Principal Investigator (PI) of 4 *Hubble* Space Telescope observing programmes (total 77 orbits observed), 6 programmes with the 8.2m ESO Very Large Telescope (total 138.4 hours), 1 XMM-Newton programme (28ks), 8 programmes with the 4.2m William Herschel Telescope (total 28 nights), 1 NOAO programme with the 4.1m Southern Astrophysical Research (SOAR) Telescope (1 night), and 2 programmes with the Sunyaev-Zel’dovich Array (total 112 hours).

- Research grant acquisition: Total of 1,074 k€ as PI
- *European Southern Observatory Observing Programmes Committee*: 3× Member of the Cosmology Expert Panel (2016–2017: P99–P101)
- *Hubble Space Telescope Cycle 28 Time Allocation Committee*: Panelist on the Large-scale Structure panel (2020).
- *Science Organising Committees*: Annual Meeting of the German Astronomical Society: Organiser of the splinter meetings “Galaxy Clusters & Cosmology” (2016) and “The *Euclid* Space Mission” (2017).
- *Scholarship selection committee* of the Studienstiftung des deutschen Volkes (German National Merit Foundation: 2005, 2015, 2018)
- Referee for ApJ, MNRAS, PASP

Successful research grant applications

As Principal Investigator:

- 2020: Verbundforschung Astronomie und Astrophysik (BMW via DLR): **116.4 k€**: “*Tiefe HST Gravitationslinsenanalyse des massereichsten bekannten Galaxienhaufens bei Rotverschiebung $z > 1$: SPT-CLJ2106-5844*”
- 2019: German Research Foundation (DFG): **282.9 k€**: “*Analysis of new WHT, VLT, and SOAR observations: Confirming new galaxy clusters from Planck & Calibrating the masses of high-redshift SPT clusters via weak gravitational lensing for cosmological investigations*”
- 2017: Verbundforschung Astronomie und Astrophysik (BMW via DLR): **108 k€**: “*Einschränkung der Masse von neun SPT-SZ Galaxienhaufen bei Rotverschiebungen $z > 1.2$ mittels einer Analyse des schwachen Gravitationslinseneffekts in neuen Hubble Space Telescope Mehrfarbenbeobachtungen.*”
- 2016: Verbundforschung Astronomie und Astrophysik (BMW via DLR): **105 k€**: “*Analyse des schwachen Gravitationslinseneffektes in neuen Hubble Space Telescope Mosaikbeobachtungen des relaxierten, hochrotverschobenen Galaxienhaufens SPT-CIJ2043-5035*”
- 2014: Verbundforschung Astronomie und Astrophysik (BMW via DLR): **226 k€**: “*Kosmologische und astrophysikalische Analyse neuer HST Snapshot Gravitationslinsenbeobachtungen einer repräsentativen Stichprobe massereicher hochrotverschobener Galaxienhaufen im South Pole Telescope Sunyaev-Zel’dovich Survey*”
- 2013: Verbundforschung Astronomie und Astrophysik (BMW via DLR): **99 k€**: “*Röntgen- und Gravitationslinsenanalyse zweier äußerst massereicher Galaxienhaufen bei hoher Rotverschiebung.*”
- 2012: Verbundforschung Astronomie und Astrophysik (BMW via DLR): **138 k€**: “*Materieverteilung und Massenklibration der massereichsten Galaxienhaufen bei mittlerer und hoher Rotverschiebung.*”

As Co-Investigator:

- 2017: EU Horizon 2020 COMPET-2017 programme “*Enabling Weak lensing Cosmology*” (PI: Thomas Kitching, UCL): 1.6 M€ total. Bonn University share: **135 k€**. Role: Coordinator of the Bonn node & lead of work package 4 (HST data reduction & optimisation).

Teaching & Supervision

2020–present	Supervision of the PhD thesis project of Florian Kleinebreil (Bonn)
2019–2020	Supervision of the Master thesis project of Florian Kleinebreil (Bonn)
2019–present	Supervision of the PhD research project of Diana Scognamiglio (Bonn)
2018–present	Supervision of the PhD research project of Hannah Zohren (Bonn)
2016–present	Supervision of the advanced physics lab course experiment <i>Optical Astronomy</i> at Bonn University
2013–present	Class on <i>Optical Observations</i> at Bonn University (SS 2013–2020)
2003, 2004, 2020	Guest lecture in Peter Schneider’s class on cosmology, Bonn University
2016–2019	Supervision of the PhD research project of Beatriz Hernandez-Martin (Bonn, see publication R101)
2016–2019	Supervision of the PhD research project of Fatimah Raihan (Bonn, see publication R99).
2017–2018	Supervision of the Master’s research project of Nils Weissgerber (Bonn)
2017–2018	Supervision of the Master’s research project of Hannah Zohren (Bonn, see publication R94)
2016	Initiation, organisation, and supervision of observing training for students from the <i>Optical Observations</i> class at the ORM observatory (La Palma)
2013–2017	Co-supervision of one PhD research project of Sophia Thölken (Bonn, see publication R79)
2015–2016	Supervision of the Master’s research project of Fatimah Raihan (Bonn)
2012–2016	Supervision of one PhD research project of Axel Buddendiek (Bonn, see publication R61)
2013	Guest lecture in Peter Schneider’s class on gravitational lensing (Bonn)
2011	Guest lecture on gravitational lensing in Steve Allen’s introduction to astrophysics class, Stanford University
2009–2010	Co-supervision of one PhD research project of Malin Velandar (Leiden, see publication R25)
2009–2010	Co-supervision of one PhD research project of Merijn Smit (Leiden, see publication R64)
2008–2009	Supervision of the Master’s research project of Maarten van den Berg (Leiden)
2009	Lecturer at the six-day IPM School and Workshop on Weak Lensing & Photo-z Techniques 2009 at Tehran University
2006	Co-organiser and instructor of a one-week introductory course on weak lensing techniques at Bonn University
2003–2007	Instructor for the practical astronomy course at Hoher List Observatory
2003–2007	Astronomy tutor for first-year undergraduates, Bonn University
2001–2004	Student project supervision at the International Astronomical Youth Camp

Science communication and public outreach

- 2017–present Organiser of & lecturer at the Teacher Training at the Argelander-Institute for Astronomy (AlfA)
- 2019 Public lecture on cluster cosmology at Planetarium Bochum, Germany
- 2018–2019 Coordinator of ESERO Germany activities at the AlfA (www.esero.de)
- 2019 Preparation of a booth on *Gravitational lensing & Euclid* for the national physics science exhibition “Highlights der Physik” (www.highlights-physik.de/)
- 2018 Astronomy instructor at the “Schülerakademie 2018”, an event for pupils at Bonn University
- 2017 ESO + ESA/HST Picture of the Week: *HAWK-I and Hubble Explore a Cluster with the Mass of two Quadrillion Suns*
www.eso.org/public/images/comparisons/potw1752a,
www.spacetelescope.org/images/comparisons/potw1752a
University of Bonn press release: <https://uni-bn.de/E45LEiRvH1>
- 2016 Teacher training at Cologne University: Lecture on cosmology and gravitational lensing.
- 2016 Two public lectures on *Euclid* and the Dark Universe at the DLR and the Karl-Rahner Akademie (in German)
- 2015 Public lecture on gravitational lensing and cosmology, AlfA Bonn
- 2010 ESA/HST press release (www.spacetelescope.org/news/heic1005):
‘Hubble confirms cosmic acceleration with weak lensing’
followed by numerous interviews, e.g. for the online journal of Science, a Nature picture story, Radio New Zealand, the UK Daily Telegraph
- 2007 Organiser of a public day for pupils at the Argelander-Institute, Bonn as part of the programme *Germany - Land of Ideas* (land-of-ideas.org)
- 2006 SLAC press release: *‘Dark Matter Observed: Most Direct Measurement of Dark Matter Allows Study of its Nature’*
<https://home.slac.stanford.edu/pressreleases/2006/20060821.htm>
- 2001–2004 Co-organiser of the International Astronomical Youth Camp, a summer camp in which interested amateur astronomers work on astronomical projects for three weeks (www.iayc.org)
- 2003–2004 Vice-president of the International Workshop for Astronomy, the association organising the International Astronomical Youth Camps
- 1998–2002 Co-organiser of the German astronomical youth camp AAC
- 1998 Referee for the German young scientists contest *Jugend forscht*

Approved observing proposals

As Principal Investigator:

Space-based facilities:

- HST Cycle 27 (2019–2020): Program 15883 (4 CVZ orbits): *Robust and efficient HST weak lensing mass measurements for high- z clusters: A pilot study targeting the most-massive SZ cluster known at $z > 1$.*
- HST Cycle 24 (2016–2017): Program 14677 (22 orbits): *Probing the most distant high-mass galaxy clusters from SPT with HST weak lensing observations.*

- HST Cycle 21 (2013–2015): Program 13412 (120 Snapshot orbits allocated, 46 observed): *An ACS Snapshot Survey of the Most Massive Distant Galaxy Clusters in the South Pole Telescope Sunyaev-Zel'dovich Survey.*
- HST Cycle 21 (2013–2014): Program 13412 (5 orbits): *An XMM-Newton+HST study of the likely most X-ray luminous $z \geq 0.9$ galaxy cluster.*
- XMM-Newton AO-12 (2013): Proposal 072253 (28ks): *An XMM-Newton+HST study of the likely most X-ray luminous $z \geq 0.9$ galaxy cluster.*

Ground-based facilities:

- 2018A+2018B: ESO: 78.4h with VLT: HAWK-I (48h) + FORS2 (30.4h) (+24h allocated in 2019B to compensate for lost observations from 2018B): *Establishing VLT as the most efficient facility to improve the weak lensing mass calibration for massive high-redshift galaxy clusters in order to enable next-generation constraints on cluster cosmology and astrophysics*
- 2018: ESO: 4h VLT HAWK-I/GRAAL Science Verification Observations: *Demonstrating the power of HAWK-I+GRAAL for deep weak lensing measurements of high-redshift galaxy clusters*
- 2017B: ESO: 2.4 nights with VLT/FORS2: *Probing the most distant high-mass galaxy clusters from the South Pole Telescope Sunyaev-Zel'dovich Survey with HST+VLT weak lensing observations*
- 2017A via OPTICON: 3 nights at the 4.2m WHT using ACAM: *Confirming candidates for extremely massive galaxy clusters at $z \gtrsim 0.7$*
- 2016B via NOAO: 1 night at the 4.1m SOAR using SAMI+SOI: *Pushing to new frontiers: A pilot study for cluster weak lensing at redshift $z > 1.4$*
- 2016B via OPTICON: 2 nights at the 4.2m WHT using ACAM: *Confirming candidates for extremely massive galaxy clusters at $z \gtrsim 0.7$*
- 2011A: ESO: 12.8h with VLT/HAWK-I: *Weighing the most massive $z > 0.6$ cluster of galaxies known using HAWK-I weak lensing observations*
- 2011A+2011B+2012A: Total of 12 nights at the 4.2m WHT using ACAM: *Discovering the richest X-ray-detected high-redshift galaxy clusters in the SDSS area*
- 2010B/2011A: 96h regular + 16h DDT Sunyaev-Zel'dovich observations at the SZA: *SZ-masses for the richest ROSAT-detected high-redshift galaxy clusters identified in the SDSS*
- 2010A: 7h at the 4.2m WHT using ACAM: *Finding the most X-ray luminous and massive high redshift galaxy clusters in the SDSS*
- 2009B+2010A: Total of 10 nights at the 4.2m WHT using PFIP: *Multi-colour follow-up of galaxy clusters with ACS lensing data to study the stripping of galaxy CDM halos*

As Co-Investigator (selection of major proposals with substantial contributions):

- 2016B via NOAO: 17.5h with GMOS on Gemini-South, PI: B. Benson: *Slaying Systematics: Maximizing Cosmological Power from HST-Measured Weak Lensing Masses of SPT Galaxy Clusters at Redshift $z \sim 0.9$*

- Chandra Cycle 17: Proposal 17800222, PI: J. Hlavacek-Larrondo: *Deep X-ray Observations of 3 exceptional high-z clusters of galaxies*. 425ks Chandra + 8 Orbits HST
- Spitzer GO-9: Proposal 90009, PI: M. Bradač: *Spitzer UltraFaint Survey (SURFS Up): Cluster Lensing and Spitzer Extreme Imaging Reaching Out to $z \gtrsim 7$* . 564.1h Spitzer + 13 Orbits HST (Co-PI)
- 2014B via NOAO: 25h with GMOS on Gemini-South, PI: B. Benson: *Slaying Systematics: Maximizing Cosmological Power from HST-Measured Weak Lensing Masses of High-Redshift Clusters*
- 2014A: Total of 2 nights at the 4.2m WHT using PFIP (PI: H. Hoekstra): *An HST+WHT gravitational lensing study of CIGJ120959+495352, the likely most X-ray luminous $z \geq 0.9$ galaxy cluster known*
- HST Cycle 19: Proposal 12477, PI: F.W. High: *Weak lensing masses of the highest redshift galaxy clusters from the South Pole Telescope SZ survey*. 35 orbits.
- HST Cycle 18: Proposal 12246, PI: C. Stubbs: *Weak lensing mass calibration of SZ-selected clusters*. 35 orbits.
- Chandra Cycle 13: Proposal 13800830, PI: A. Hicks: *Expanding the Frontiers with Chandra: Observations of the Most Massive $z > 0.6$ Cluster of Galaxies Known*. 150ks.

Honours and scholarships

2010/11–2011/10	KIPAC Fellowship, Stanford University (awarded for three years)
2005/04–2007/04	PhD scholarship of the German National Merit Foundation (Studienstiftung des deutschen Volkes, www.studienstiftung.org)
2004–2007	Member of the International Max-Planck Research School on Astronomy & Astrophysics in Bonn & Cologne
2001–2003	Scholarship of the German National Merit Foundation
1998	<i>Samuel Thomas von Soemmerring</i> Prize of the Physikalischer Verein, Frankfurt
1997	Second prize at the national level of the German annual young scientists contest <i>Jugend forscht</i> , including special award of the German Aerospace Center DLR
1994	First prize at the federal state level of <i>Schüler experimentieren</i> (an annual young scientists contest for pupils)

Observing experience

- 3 nights at the 6.5m MMT using Megacam.
- 14 nights at the 4.2m WHT using ACAM+LIRIS.
- 12 nights at the 4.2m WHT using PFIP.
- 1 night at the 4.1m SOAR using SAMI and Goodman HTS.
- Extensive experience (> 50 nights) with the telescopes at Hoher List Observatory (1m class and smaller telescopes).

Talks (selection, excluding regular talks at *Euclid*, SPT, and eROSITA collaboration meetings):

- Sep 20 Virtual workshop “Dissecting Cluster Cosmology - Stage 0” – Invited talk: *Weak lensing mass calibration*
- Nov 19 AIRUB Science Seminar, Bochum University: *Weak lensing-calibrated constraints on cosmology from the SPT galaxy cluster survey*
- Jul 19 Conference “Tracing Cosmic Evolution with Clusters of Galaxies IV”, Sesto, Italy: *HST and VLT weak lensing measurements of distant galaxy clusters from SPT*
- Jun 19 Conference CosmoGold IAP 2019: “The golden age of cosmology from Planck to Euclid”, Paris, France: *Constraining cosmology with deep weak lensing observations of distant galaxy clusters from SPT*
- May 18 Cambridge Kavli Workshop: “Consistency of cosmological datasets: Evidence for new physics?”, Cambridge, UK: *Weak lensing-calibrated cluster cosmology: Pushing deep for dark energy studies*
- Oct 17 Conference “The Dark Universe 2017”, Munich, Germany: *Calibrating the masses of distant galaxy clusters with high-resolution weak lensing observations*
- Sep 17 Splinter “*Euclid*” of the AG Tagung Göttingen, Germany: *Euclid: Weak lensing science introduction*
- Sep 17 Splinter “eROSITA” of the AG Tagung Göttingen, Germany: *Calibrating the masses of high-redshift clusters with deep weak lensing observations*
- Jul 17 Conference “Galaxy Clusters 2017”, Santander, Spain: *Calibrating the masses of high-redshift clusters using HST weak lensing observations*
- Oct 16 ING+Mercator Seminar, St. Cruz, Spain: *Weak lensing measurements of high-redshift clusters of galaxies with HST*
- Oct 16 8th Bethe Workshop “Particle Physics meets Cosmology”, Bad Honnef: *Weak gravitational lensing from space: Constraining the mass scale of distant galaxy clusters from SPT using HST*
- Sep 16 Splinter “Galaxy Clusters & Cosmology” of the AG Tagung Bochum: *Weak gravitational lensing from space: Constraining the mass scale of distant galaxy clusters from SPT using HST*
- Jul 16 Conference “A century of gravitational lensing: from Theory to Application”, Leiden: *HST weak lensing analysis of high-redshift clusters from SPT*
- Apr 16 Invited talk at the Ringberg eROSITA/CAASTRO/4MOST Workshop: *Cluster mass calibration with weak lensing*
- Mar 15 Invited talk at SnowCluster 2015 (declined)
- Nov 14 Cosmology with Galaxy Clusters in the XXI century, Madrid – Talk: *Calibrating the masses of high-redshift clusters from SPT with HST weak lensing observations*
- Oct 14 Invited talk at the TR33 meeting Heidelberg: ‘*Using weak gravitational lensing to calibrate the SPT galaxy cluster survey for cosmology*’
- Oct 11 Astrophysics Colloquium, Stanford, USA – Talk: *Weak lensing surveys en route to precision cosmology*
- Jun 10 10 Years of Cosmic Shear, Edinburgh, UK – Talk: *Cosmological weak lensing with COSMOS*
- Sep 09 Recent Advances in Cosmology, Splinter Meeting of the AG-Tagung 09, Potsdam, Germany – Invited talk: *3D Cosmological Weak Lensing with COSMOS*
- Feb 09 Physics seminar, Dresden, Germany – Invited talk: *Studying the Dark Side of the Universe with Weak Gravitational Lensing*
- Oct 08 OZ Lens 2008, Sydney, Australia – Talk: *The ellipticity of galaxy-scale dark matter haloes from galaxy-galaxy lensing in the HST/COSMOS Survey*

- Sep 08 KIPAC tea talk, Stanford, USA – Talk: *New evidence for dark matter: Constraining the ellipticity of galaxy-scale dark matter haloes with weak lensing in the HST/COSMOS Survey*
- Jun 08 DUEL Network Meeting, Victoria, Canada – Talk: *PSF interpolation using Principal Component Analysis*
- Oct 07 DUEL Network Meeting, Edinburgh, UK – Talk: *Cosmological Weak Lensing with HST*
- Sep 07 Dark 2007, Sydney, Australia – Invited talk: *Cosmological Weak Lensing and Dark Matter Mapping with HST*
- Jul 07 23rd IAP Colloquium ‘From giant arcs to CMB lensing’, Paris, France – Talk: *Cosmic shear analysis of archival HST/ACS data*
- Aug 06 Oort Workshop on Gravitational Lensing, Leiden, The Netherlands – Talk: *Cosmic shear analysis of archival HST/ACS data*
- Oct 04 Baryons in Dark Matter Halos’, Novigrad, Croatia – Talk: *Cosmic shear with the Advanced Camera for Surveys*

List of publications

I have authored **102** refereed publications in international peer-reviewed journals. My publications have a total of **9820 citations**, including **24 “very well known papers”** with over 100 citations each. I am the **first author of six**, **second author of 13**, and **third author of nine** refereed journal papers. Publications led by students under my supervision or co-supervision are: R101, R99, R94, R79, R64, R61, and R25. My **Hirsch index** is **43**. These statistics were taken from the SAO/NASA Astrophysics Data System on Oct 26th, 2020.

Submitted publications

R103. **Schrabback, T.**, Bocquet, S., Sommer, M., Zohren, H., van den Busch, J. L., Hernández-Martín, B., Hoekstra, H., Raihan, S. F., Schirmer, M., Applegate, D., Bayliss, M., Benson, B. A., Bleem, L. E., Dietrich, J. P., Floyd, B., Hilbert, S., Hlavacek-Larrondo, J., McDonald, M., Saro, A., Stark, A. A., & Weissgerber, N.: *Mass calibration of distant SPT galaxy clusters through expanded weak lensing follow-up observations with HST, VLT & Gemini-South*. MNRAS submitted (also arXiv:2009.07591) 2020.

Refereed publications

R102. **Schrabback, T.**, Hoekstra, H., Van Waerbeke, L., van Uitert, E., Georgiou, C., Asgari, M., Cuillandre, J.-C., Erben, T., Ferrarese, L., Gwyn, S., C., H., Hildebrandt, H., Kannawadi, A., Kuijken, K., Leauthaud, A., Makler, M., Mei, S., Miller, L., Raichoor, A., Schneider, P., & Wright, A.: *Tightening weak lensing constraints on the ellipticity of galaxy-scale dark matter haloes*. A&A accepted (also arXiv:2010.00311) 2020.

R101. Hernández-Martín, B., **Schrabback, T.**, Hoekstra, H., Martinet, N., Hlavacek-Larrondo, J., Bleem, L. E., Gladders, M. D., Stalder, B., Stark, A. A., & Bayliss, M.: *Constraining the masses of high-redshift clusters with weak lensing: revised shape calibration testing for the impact of stronger shears and increased blending*. A&A 2020, 640, A117 (20 pages).

R100. Gillis, B. R., **Schrabback, T.**, Marggraf, O., Mandelbaum, R., Massey, R., Rhodes, J., &

- Taylor, A.: *Validation of PSF Models for HST and Other Space-Based Observations*. MNRAS 2020, 496, 5017 (22 pages).
- R99. Raihan, S. F., **Schrabback, T.**, Hildebrandt, H., Applegate, D., & Mahler, G.: *Testing the accuracy of 3D-HST photometric redshift estimates as reference samples for deep weak lensing studies*. MNRAS 2020, 497, 1404 (15 pages).
- R98. Euclid Collaboration, Paykari, P., Kitching, T. D., Hoekstra, H., Azzollini, R., Cardone, V. F. et al. (130 authors incl. **Schrabback, T.**): *Euclid preparation: VI. Verifying the Performance of Cosmic Shear Experiments*. A&A 2020, 635, A139 (18 pages).
- R97. Mahler, G., Sharon, K., Gladders, M. D., Bleem, L., Bayliss, M. B., Calzadilla, M. S., Floyd, B., Khullar, G., McDonald, M., Remolina González, J. D., **Schrabback, T.**, Stark, A. A., & van den Busch, J. L.: *Strong Lensing Model of SPT-CLJ0356-5337, a Major Merger Candidate at Redshift 1.0359*. ApJ 2020, 894, 150 (19 pages).
- R96. Bleem, L. E., Bocquet, S., Stalder, B., Gladders, M. D., Ade, P. A. R., Allen et al. (137 authors incl. **Schrabback, T.**): *The SPTpol Extended Cluster Survey*. ApJS 2020, 247, 25 (49 pages).
- R95. Bradač, M., Huang, K.-H., Fontana, A., Castellano, M., Merlin, E., Amorín, R., Hoag, A., Strait, V., Santini, P., Ryan, R. E., Casertano, S., Lemaux, B. C., Lubin, L. M., Schmidt, K. B., **Schrabback, T.**, Treu, T., von der Linden, A., Mason, C. A., & Wang, X.: *Hubble Frontier Field photometric catalogues of Abell 370 and RXC J2248.7-4431: multiwavelength photometry, photometric redshifts, and stellar properties*. MNRAS 2019, 489, p. 99 (9 pages).
- R94. Zohren, H., **Schrabback, T.**, van der Burg, R. F. J., Arnaud, M., Melin, J.-B., van den Busch, J. L., Hoekstra, H., & Klein, M.: *Optical follow-up study of 32 high-redshift galaxy cluster candidates from Planck with the William Herschel Telescope*. MNRAS 2019, 488, p. 2523 (23 pages).
- R93. Euclid Collaboration, Martinet, N., **Schrabback, T.**, Hoekstra, H., Tewes, M., Herbonnet, R., Schneider, P., Hernandez-Martin, B., Taylor, A. N., Brinchmann, J., Carvalho, C. S., Castellano, M., Congedo, G., Gillis, B. R., Jullo, E., Kümmel, M., Liori, S., Lilje, P. B., Padilla, C., Paris, D., Peacock, J. A., Pilo, S., Pujol, A., Scott, D., & Toledo-Moreo, R.: *Euclid Preparation IV. Impact of undetected galaxies on weak lensing shear measurements*. A&A 2019, 627, p. A59 (20 pages).
- R92. Bocquet, S., Dietrich, J. P., **Schrabback, T.**, Bleem, L. E., Klein, M., Allen, S. W., Applegate, D. E., et al. (73 authors): *Cluster Cosmology Constraints from the 2500 deg² SPT-SZ Survey: Inclusion of Weak Gravitational Lensing Data from Magellan and the Hubble Space Telescope*. ApJ 2019, 878, p. 55 (41 pages).
- R91. Bulbul, E., Chiu, I.-N., Mohr, J. J., McDonald, M., Benson, B., Bautz, M. W., Bayliss, M., Bleem, L., Brodwin, M., Bocquet, S., Capasso, R., Dietrich, J. P., Forman, B., Hlavacek-Larrondo, J., Holzappel, W. L., Khullar, G., Klein, M., Kraft, R., Miller, E. D., Reichardt, C., Saro, A., Sharon, K., Stalder, B., **Schrabback, T.**, & Stanford, A.: *X-Ray Properties of SPT-selected Galaxy Clusters at $0.2 < z < 1.5$ Observed with XMM-Newton*. ApJ 2019, 871, p. 50 (29 pages).
- R90. Dietrich, J. P., Bocquet, S., **Schrabback, T.**, Applegate, D., Hoekstra, H., Grandis, S., Mohr, J. J., et al. (30 authors): *Sunyaev-Zel'dovich effect and X-ray scaling relations from weak lensing mass calibration of 32 South Pole Telescope selected galaxy clusters*. MNRAS 2019, 483, p. 2871 (41 pages).
- R89. McDonald, M., Allen, S. W., Hlavacek-Larrondo, J., Mantz, A. B., Bayliss, M., Benson, B. A., Brodwin, M., Bulbul, E., Canning, R. E. A., Chiu, I., Forman, W. R., Garmire, G. P., Gupta, N., Khullar, G., Mohr, J. J., Reichardt, C. L., & **Schrabback, T.**: *A Detailed Study of the Most Relaxed*

SPT-selected Galaxy Clusters: Properties of the Cool Core and Central Galaxy. ApJ 2019, 870, p. 85 (15 pages).

R88. Stern, C., Dietrich, J. P., Bocquet, S., Applegate, D., Mohr, J. J., Bridle, S. L., et al. (73 authors incl. **Schrabback, T.**): *Weak-lensing analysis of SPT-selected galaxy clusters using Dark Energy Survey Science Verification data.* MNRAS 2019, 485, p. 69 (21 pages).

R87. Strazzullo, V., Pannella, M., Mohr, J. J., Saro, A., Ashby, M. L. N., Bayliss, M. B., Bocquet, S., Bulbul, E., Khullar, G., Mantz, A. B., Stanford, S. A., Benson, B. A., Bleem, L. E., Brodwin, M., Canning, R. E. A., Capasso, R., Chiu, I., Gonzalez, A. H., Gupta, N., Hlavacek-Larrondo, J., Klein, M., McDonald, M., Noordeh, E., Rapetti, D., Reichardt, C. L., **Schrabback, T.**, Sharon, K., & Stalder, B.: *Galaxy populations in the most distant SPT-SZ clusters. I. Environmental quenching in massive clusters at $1.4 \lesssim z \lesssim 1.7$.* A&A 2019, 622, p. A117 (29 pages).

R86. Tewes, M., Kuntzer, T., Nakajima, R., Courbin, F., Hildebrandt, H., & **Schrabback, T.**: *Weak-lensing shear measurement with machine learning. Teaching artificial neural networks about feature noise.* A&A 2019, 621, p. A36 (31 pages).

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