

## Referierte Publikationen

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Svinkin D., S. Golenetskii, D. Frederiks, A. Ridnaia, A. Lysenko, T. Cline, Konus-Wind Team, K. Hurley, Ipn, A. Goldstein, M. Briggs, C. Wilson-Hodge, Fermi Gbm Team, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, INTEGRAL SPI-ACS Grb Team: IPN triangulation of GRB 210531A. GCN Circ. 30110 (2021).

Svinkin D., S. Golenetskii, D. Frederiks, A. Ridnaia, A. Lysenko, T. Cline, Konus-Wind Team, K. Hurley, Ipn, A. Goldstein, M. Briggs, C. Wilson-Hodge, Fermi Gbm Team, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, INTEGRAL SPI-ACS Grb Team: IPN triangulation of GRB 210624A (short). GCN Circ. 30318 (2021).

Svinkin D., S. Golenetskii, D. Frederiks, A. Ridnaia, A. Lysenko, T. Cline, Konus-Wind Team, K. Hurley, Ipn, A. Goldstein, M. Briggs, C. Wilson-Hodge, Fermi Gbm Team, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, INTEGRAL SPI-ACS Grb Team, S. Barthelmy, J. Cummings, H. Krimm, D. Palmer, A. Tohuvavohu, Swift-Bat Team: IPN triangulation of GRB 210605A (short). GCN Circ. 30143 (2021).

Svinkin D., S. Golenetskii, D. Frederiks, A. Ridnaia, A. Lysenko, T. Cline, Konus-Wind Team, K. Hurley, Ipn, A. von Kienlin, S. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, INTEGRAL SPI-ACS Grb Team, S. Barthelmy, J. Cummings, H. Krimm, D. Palmer, A. Tohuvavohu, Swift-Bat Team: IPN triangulation of GRB 210212B (consistent with ZTF21aakruew/AT2021c wd). GCN Circ. 29511 (2021).

Svinkin D., S. Golenetskii, D. Frederiks, A. Ridnaia, A. Lysenko, T. Cline, Konus-Wind Team, K. Hurley, Ipn, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, INTEGRAL SPI ACS Grb Team, A. Goldstein, M. Briggs, C. Wilson-Hodge, Fermi Gbm Team, S. Barthelmy, J. Cummings, H. Krimm, D. Palmer, A. Tohuvavohu, Swift-Bat Team: IPN triangulation of GRB 211124A (short). GCN Circ. 31116 (2021).

- Svinkin D., S. Golenetskii, D. Frederiks, A. Ridnaia, A. Ly-senko, T. Cline, Konus-Wind Team, P. Hurley, Ipn, S. Barthelmy, J. Cummings, H. Krimm, D. Palmer, A. Tohuva-vohu, Swift-Bat Team, A. von Kienlin, X. Zhang, A. Rau, V. Savchenko, E. Bozzo, C. Ferrigno, INTEGRAL SPI-ACS Grb Team: IPN Triangulation of a bright burst from SGR 1935+2154. GCN Circ. 30598 (2021).
- Tacconi (chair), L. J.: Voyage 2050: Final Recommendations from the Voyage 2050 Senior Committee. Other journal, ESA Publications, (2021).
- Wood J., A. von Kienlin, C. Meegan, Fermi GBM Team: GRB 210211A: Fermi GBM observation. GCN Circ. 29482 (2021).
- von Kienlin A., Fermi GBM Team: Fermi GBM trigger 657780594/211105201 is not a GRB. GCN Circ. 31043 (2021).
- von Kienlin A., C. Meegan, Fermi GBM Team: GRB 210626A: Fermi GBM observation. GCN Circ. 30340 (2021).

## Poster

- Alberton, D.: Millimeter Laboratory Spectroscopy of Allylmine. ACO Astro Chemical Origins, Torino, Italy, September 2021.
- Choudhury, S.: Ammonia as a tracer to probe the transition to coherence in dense cores. EAS 2021 Annual Meeting, Virtual Meeting, June/July 2021.
- Choudhury, S.: Probing the transition to coherence. Star Formation: From Clouds to Discs, Malahide, Ireland, October 2021.
- Comparat, J.: The final SDSS-IV/SPIDERS X-ray point source spectroscopic catalogue. European Astronomy Society, EAS, Virtual Meeting, Germany, June 2021.
- Comparat, J.: The large-scale structure traced by simulated eROSITA AGN and Clusters. European Astronomy Society, EAS, Virtual Meeting, Germany, June 2021.
- Coogan, R.: Galaxy evolution in clusters at  $z=2$ : starbursts, AGN, and the ICM. Formation and Evolution of Galaxy Clusters Across Cosmic Time, Tenerife, Spain, November 2021.
- Endres, C.P.: The Soleil View on Dimethyl Ether. HRMS Cologne 2021 / I. Physikalisches Institut, Universität zu Köln, Cologne, Virtual Meeting, Germany, August 2021.
- Ferrer Asensio, J.: HC170+ hyperfine emission in L1544: Observations and radiative transfer modelling. EAS Annual Conference, Virtual Meeting, June 2021.
- Haase, J.: The SciServer at MPE - Enabling collaboration for eROSITA & HETDEX. Astronomical Data Analysis Software and Systems (ADASS XXXI), Cape Town, Virtual Meeting, South Africa, October 2021.
- Kluge, M.: Structure of Brightest Cluster Galaxies and Intracluster Light. EAS Annual Meeting, Leiden, Netherlands, remote, June 2021.
- Kluge, M.: Data reduction techniques for preserving the faint outskirts of largely extended sources. EAS Annual Meeting, Leiden, Netherlands, remote, June 2021.
- Liu, T.: Characterizing the eFEDS X-ray point-source catalog with simulation and spectral analysis. EAS2021 conference, Virtual Meeting, July 2021.
- Ramos-Ceja, M. E.: X-ray properties of shear-selected clusters in the eFEDS footprint. A multi-wavelength view of galaxy clusters: Deriving masses in the era of wide-field surveys, Virtual Meeting, September 2021.
- Sanders, J.: MBProj2 and MBProj2D: Forward modelling of X-ray cluster data to obtain profiles and masses. A multi-wavelength view of galaxy clusters: deriving masses in the era of wide-field surveys, European Space Agency, Virtual Meeting, September 2021.
- Spezzano, S.: Methanol GEMS: An extensive study on methanol towards starless cores in Taurus. EAS2021, Virtual Meeting, June 2021.
- Wolf, J.: First constraints on the AGN X-ray luminosity function at  $z\sim 6$  from an eROSITA detected quasar. EAS, Leiden, Virtual Meeting, The Netherlands, June 2021.
- Wölfer, L.: Spiral structure in the gas disc of CQ Tau. EAS 2021 Leiden, virtual conference, June/July 2021.



## Vorträge

- Alberton D: Laboratory Spectroscopy for Astrochemistry: a Rotational Investigation of 3-AMINO-2-PROPENENITRILE. Contributed Talk, 2021 International Symposium on Molecular Spectroscopy, Virtual Meeting, June 2021.
- Alves, F. O.: Growing stars and planets in the furrows of Barnard 59. Contributed Talk, European Astronomical Society Annual Meeting, Virtual, June 2021.
- Arcodia, R.: eROSITA discoveries of Quasi-Periodic Eruptions. Contributed Talk, European Astronomical Society Annual Meeting, Leiden, Netherlands, July 2021.
- Arcodia, R.: eROSITA discoveries of Quasi-Periodic Eruptions from two previously quiescent black holes. Contributed Talk, European Astronomical Society Annual Meeting, Leiden, Netherlands, July 2021.
- Arcodia, R.: X-ray blasts from two previously quiescent galaxies. Contributed Talk, 16th Marcel Grossmann Meeting, Virtual, July 2021.
- Arcodia, R.: New discoveries of variable supermassive black holes with eROSITA. Invited Talk, EAS 2021 (Press Conference dedicated to eROSITA EDR), Leiden (remote), The Netherlands, June 2021.
- Behrendt, M.: What is the life time of clumps in high-z galaxies? Contributed Talk, Ringberg Meeting: The Puz-zles of Starformation, Schloss Ringberg, Germany, June 2021.
- Biltzinger, B.: GRB spectroscopy with PySPI and physical models. Contributed Talk, INTEGRAL: towards the third decade of X and Gamma ray observations, Pula, Italy, October 2021.
- Boehringer, H.: Application of X-ray Spectroscopy in As-trophysics. Invited Talk, Lecture in honor of Prof. Chintamani Mandi, University of Nagpur, India, December 2021.
- Boller, Th.: Was wissen wir über Schwarze Löcher. Public Talk, VHS Hallbergmoos, Hallbergmoos, Germany, June 2021.
- Boller, Th.: Die wahre Geschichte des Sterns von Bethlehem aus astronomischer Sicht. Public Talk, VHS Hallbergmoos, Hallbergmoos, Germany, December 2021.
- Boller, Th.: eROSITA discovery of ultra-soft X-ray variability in the Narrow-Line Seyfert 1 Galaxy 1H0707-495. Contributed Talk, 43th COSPAR Scientific Assembly, Sydney, Australia, January 2021.
- Bulbul, E: Galaxy Groups and Clusters in the eROSITA Final Depth Equatorial Survey. Invited Talk, Radio 2021 and GLOW Annual Assembly, Garching, Germany, November 2021.
- Bulbul, E: First Results from eROSITA Observations of Galaxy Clusters Detected in the eFEDS Field. Invited Talk, American Physical Society Physics Meetings, Online, USA, April 2021.
- Bulbul, E: First Results from eROSITA Observations of Galaxy Clusters Detected in the eFEDS Field. Invited Talk, Marcel Grossman Meeting of Relativistic astrophysics, Online, USA, October 2021.
- Bulbul, E: First Results from eROSITA Observations of Galaxy Clusters Detected in the eFEDS Field. Invited Talk, International School of Astrophysics Daniel Chalonge, Paris, France, October 2021.
- Bulbul, E: First Results from eROSITA Observations of Galaxy Clusters Detected in the eFEDS Field. Colloquium, Strasbourg Observatory, Strasbourg, France, December 2021.
- Bulbul, E: First Results from eROSITA Observations of Galaxy Clusters Detected in the eFEDS Field. Invited Talk, European Astronomical Society Meeting, Leiden, Netherlands, June 2021.
- Bulbul, E: First Results from eROSITA Observations of Galaxy Clusters. Colloquium, NASA Goddard Space Flight Center, Greenbelt, USA, May 2021.
- Bulbul, E: First Results from eROSITA Observations of Galaxy Clusters. Colloquium, University of Edinburg, Royal Observatory, Edinburg, Scotland, October 2021.
- Bulbul, E: First Results from eROSITA Observations of Galaxy Clusters. Colloquium, University of California Santa Cruz, Santa Cruz, USA, October 2021.
- Bulbul, E: eFEDS as a Preview of the eROSITA Cluster Survey. Invited Talk, EAS2021 (Press Conference Dedicated to the eROSITA EDR), Virtual, July 2021.
- Burkert, A.: Urknall und Sternenstaub. Public Talk, Aalen, March 2021.
- Burkert, A.: Ein Nobelpreis für Schwarze Löcher. Public Talk, Petershausen, remote, May 2021.
- Burkert, A.: Physik des Universums. Public Talk, Pfaffenhofen, July 2021.
- Burkert, A.: Wir sind nicht allein. Public Talk, Langeoog, August 2021.
- Burkert, A.: Urknall und Sternenstaub. Public Talk, Langeoog, August 2021.
- Burkert, A.: Urknall, Schwarze Löcher und die Entstehung des Universums. Public Talk, TUM, Garching, October 2021.
- Burkert, A.: The Pythagorean Music of Celestial Spheres and modern astronomy. Public Talk, EAS, remote, October 2021.
- Burkert, A.: Dynamik des Universums. Public Talk, Frutigen, Schweiz, October 2021.
- Burkert, A.: Urknall und Sternenstaub. Public Talk, Gersfeld, Germany, October 2021.

- Burkert, A.: Urknall und Sternenstaub. Public Talk, Calw, Germany, October 2021.
- Burkert, A.: Urknall und Sternenstaub. Public Talk, Edenkoben, Germany, October 2021.
- Burkert, A.: Urknall und Sternenstaub. Public Talk, Amorbach, Germany, October 2021.
- Burkert, A.: Was ist der Mensch? Public Talk, München, November 2021.
- Burkert, A.: Urknall, Sternenstaub und die Frage nach dem Leben. Public Talk, Berlin, December 2021.
- Burkert, A.: Collapsing sheets the power of the edge effect. Invited Talk, Dublin, October 2021.
- Burkert, A.: Physics of Galaxy Formation. Invited Talk, Frankfurt, remote, December 2021.
- Burkert, A.: The puzzles of Star formation, The puzzles of the universal gas depletion timescale. Contributed Talk, Schloss Ringberg, Germany, 2021.
- Caselli, P.: Our Astrochemical Origins. Colloquium, Institute of Cosmology and Gravitation, University of Portsmouth, Portsmouth, UK, February 2021.
- Caselli, P.: Our Astrochemical Origins. Colloquium, School of Physics and Astronomy, University of St. Andrews, St. Andrews, UK, March 2021.
- Caselli, P.: Our Astrochemical Origins. Colloquium, The Department of Astronomy and Astrophysics, The Pennsylvania State University, University Park, PA, USA, March 2021.
- Caselli, P.: From clouds to planets, the astrochemical link. Colloquium, Institute for Theory and Computation, Harvard University, Cambridge, MA, USA, April 2021.
- Caselli, P.: Our Astrochemical Origins. Colloquium, Origins Center, Groningen, The Netherlands, May 2021.
- Caselli, P.: Our Astrochemical Origins. Colloquium, Scuola Normale Superiore, Pisa, Italy, May 2021.
- Caselli, P.: Our Astrochemical Origins. Colloquium, Instituto de Astrofísica, Pontificia Universidad Católica de Chile, Santiago, Chile, September 2021.
- Caselli, P.: From clouds to planets, the astrochemical link. Colloquium, Dipartimento di Fisica, Università di Tor Vergata, Roma, Italy, December 2021.
- Caselli, P.: Astrochemistry at the dawn of star and planet formation. Invited Talk, Faraday joint interest group conference 2021, Sheffield, UK, March 2021.
- Caselli, P.: Almost complete freeze-out before stellar birth. Invited Talk, CICO-VICO-CASSUM Spring Workshop 2021, Charlottesville, VA, USA, May 2021.
- Caselli, P.: From pre-stellar cores to protoplanetary disks. Invited Talk, Ringberg Meeting: Puzzles of Star Formation, Ringberg, Germany, July 2021.
- Caselli, P.: From clouds to planets: the astrochemical link. Invited Talk, ngVLA Summer Short Talk Series, Charlottesville, VA, USA, July 2021.
- Caselli, P.: Molecular fractionation in star- and planet-forming regions. Invited Talk, Chemical processes in Solar-type star forming regions, Torino, Italy, September 2021.
- Caselli, P.: Perspective Talk. Invited Talk, MIAPP - Gaps, rings, spirals and vortices: structure formation in planet-forming disks, Garching, Germany, October 2021.
- Clarke, J.: Galactic Centre and Inner Galaxy. Contributed Talk, MW-Gaia Workshop 2021, Heidelberg, Germany, Virtual Meeting, February 2021.
- Clarke, J.: Galactic Centre and Inner Galaxy. Contributed Talk, EAS2021, Leiden, Netherlands, Virtual Meeting, July 2021.
- Collmar, W.: COMPTEL Reloaded - An updated View on the MeV Sky. Contributed Talk, Ninth International Fermi Symposium (held virtually), Johannesburg, South Africa, April 2021.
- Comparat, J.: The cosmic web of X-ray AGNs. Colloquium, Cosmology Seminar at Max Planck fuer Astrophysik, Garching bei München, Germany, May 2021.
- Comparat, J.: Mapping large scale structures in X-rays: cosmological forecast. Invited Talk, Cosmology from home, Mexico, Virtual, July 2021.
- Comparat, J.: Full-Sky Photon Simulation of Clusters and Active Galactic Nuclei in the Soft X-Rays for eROSITA. Contributed Talk, National astronomy meeting 21 (RAS), Bath, UK, July 2021.
- Comparat, J.: Forward modelling the cosmological large scale structure seen in the X-ray by eROSITA. Contributed Talk, Cluster mass 2020 @ ESAC, Madrid, Spain, September 2021.
- Coogan, R.: Environmental effects on galaxy evolution in a  $z=2$  cluster. Contributed Talk, Confronting simulations with observations of high-redshift galaxies and (proto) clusters, Nanjing (virtual), China (virtual), November 2021.
- Coogan, R.: ClJ1449: excited galaxies and multiple radio jets in the core of a mature galaxy cluster at  $z=2$ . Contributed Talk, Galaxy Cluster Formation II, Garching (virtual), Germany, June 2021.
- Davies, R.: An extremely sharp view of AGN with the Extremely Large Telescope. Invited Talk, The many faces of black hole accretion, Leiden, Netherlands, July 2021.
- Dennerl, K.: Calibration of eROSITA. Contributed Talk, EPIC Calibration Meeting, virtual, April 2021.
- Dennerl, K.: First Results and Calibration of eROSITA. Invited Talk, IACHEC Special Plenary Talk, virtual, April 2021.
- de Zeeuw, T.: Astro2020. Invited Talk, IR Group Ringberg Retreat, Ringberg, Germany, December 2021.
- de Zeeuw, T.: A Muse for Mount Olympus. Colloquium, Institute for Astrophysics, Heraklion, Greece, October 2021.
- de Zeeuw, T.: Fornax3D. Colloquium, Teatalk at the MPE, Garching, Germany, February 2021.

- Drescher, A.: First Observations with GRAVITY Wide. Contributed Talk, NYRIA Virtual Workshop, Garching, Germany, October 2021.
- Eisenhauer, F.: Follow Tycho Brahe: Precision Astronomy with Interferometry. Invited Talk, Danish Institute for Advanced Study, University of Southern Denmark, Odense, Denmark, November 2021.
- Eisenhauer, F.: A New Era of Interferometry with GRAVITY+. Invited Talk, Scientific Technical Committee (STC) and La Silla Paranal Committee, European Southern Observatory (online), Garching, Germany, October 2021.
- Eisenhauer, F.: A New Era of Interferometry with GRAVITY(+). Invited Talk, IPAG - Institut de Planétologie et d'Astrophysique, Grenoble, France, October 2021.
- Eisenhauer, F.: Great Times Ahead. Invited Talk, European Southern Observatory 2020 Nobel Prize Celebration (online), Santiago de Chile and Garching, Chile and Germany, September 2021.
- Eisenhauer, F.: Infrared Interferometry of the Galactic Center Black Hole. Invited Talk, Virtual Annual Meeting of the German Astronomical Society, Hamburg, Germany, September 2021.
- Eisenhauer, F.: An Experimentalists View on Black Holes and Gravity – the Galactic Center Black Hole. Invited Talk, 20th Lomonosov Conference (online), Moscow, Russia, August 2021.
- Eisenhauer, F.: GRAVITY+ All-Sky, High-Contrast, Milli-Arcsecond Optical Interferometric Imaging and Spectroscopy. Invited Talk, European Astronomical Society Annual Meeting (online), Leiden, The Netherlands, June 2021.
- Eisenhauer, F.: A New Era of Interferometry with GRAVITY. Invited Talk, Heidelberg Joint Astronomical Colloquium (online), Heidelberg, Germany, June 2021.
- Eisenhauer, F.: A New Era of Interferometry with GRAVITY. Invited Talk, University of Vienna, Astrophysics Colloquium (online), Vienna, Austria, June 2021.
- Eisenhauer, F.: A New Era of Interferometry with GRAVITY. Invited Talk, Sydney Institute for Astronomy, The University of Sydney (online), Sydney, Australia, April 2021.
- Eisenhauer, F.: Infrared Interferometry of the Galactic Center Black Hole. Invited Talk, Extreme Gravity Mini Symposium, Erlangen Centre for Astroparticle Physics, Friedrich-Alexander Universität Erlangen-Nürnberg (online), Erlangen, Germany, April 2021.
- Eisenhauer, F.: A New Era of Interferometry with GRAVITY. Invited Talk, Dunlap Institute for Astronomy & Astrophysics Colloquium, University of Toronto (online), Toronto, Canada, March 2021.
- Eisenhauer, F.: GRAVITY+ – All-Sky, High-Contrast, Milli-Arcsecond Optical Interferometric Imaging and Spectroscopy. Invited Talk, The Infrared Sky at Milli- and Microarcsecond Resolution with GRAVITY+ Online Workshop (online), Garching, Germany, February 2021.
- Eisenhauer, F.: Next Decade of Galactic Center Black Hole Observations with Infrared Interferometry and 30-40m Telescopes. Invited Talk, Next Generation EHT Conference 2021 (online), Cambridge, MA, USA, February 2021.
- Eisenhauer, F.: General Relativistic Effects in Stellar Orbits around the Galactic Center Black Hole with GRAVITY. Invited Talk, Revealing the Milky Way with GAIA workshop (online), Heidelberg, Germany, February 2021.
- Eisenhauer, F.: The Discovery of the Massive Black Hole in the Center of the Galaxy. Invited Talk, Iberian String 2021 (online), Lisbon, Portugal, January 2021.
- Eisenhauer, F.: GRAVITY+: All-Sky, High-Contrast, Milli-Arcsecond Optical Interferometric Imaging and Spectroscopy. Invited Talk, DIAS Astronomy & Astro-physics Seminar (online), Dublin, Ireland, January 2021.
- Eisenhauer, F.: Recent GRAVITY Results on the Galactic Center Black Hole. Invited Talk, 43rd COSPAR Scientific Assembly (online), Sydney, Australia, January 2021.
- Endres, C.P.: Automatic Spectral Assignment Procedure ASAP - Application to complex spectra of chiral molecules. Invited Talk, SFB1319 Winterschool 2021 / Universität Kassel, Kassel, Germany, December 2021.
- Esposito, M.: Weighing Cosmic Structures with Clusters of Galaxies and the Intergalactic Medium, Invited Talk, Large Scale Structure Seminar, Cambridge, UK, 2021.
- Farrow, D.: Correcting correlation functions for redshift dependent interloper contamination. Invited Talk, HEZ Board Meeting, remote, June 2021.
- Forster Schreiber, N. M.: Galaxy Evolution at the Peak Epoch of Cosmic Star Formation: Witnessing In-situ the Growth and Transformations of Young Galaxies. Colloquium, Seoul National University, Dept. of Physics and Astronomy, Seoul, South Korea, May 2021.
- Forster Schreiber, N. M.: Galaxy evolution: an observational perspective. Invited Talk, Workshop on Massively Parallel Large Area Spectroscopy from Space, Porto, Portugal, June 2021.
- Genzel, R.: Über die Galaxie zum Nobelpreis. BADW-Gesprächsreihe Vis-à-Vis, Munich, Germany, January 2021.
- Genzel, R.: A 40-Year Journey. Invited talk (remote), Congreso Futuro Antofagasta, Universidad Católica del Norte, Chile, January 2021.
- Genzel, R.: A 40-Year Journey. Invited talk (remote), Congreso Futuro, Chile, January 2021.
- Genzel, R.: A 40-Year Journey. Keynote speech (remote), Telekom Digital Leadership Meeting, Germany, January 2021.
- Genzel, R.: Testing General Relativity and the Massive Black Hole Paradigm with Infrared Techniques in the Galactic Center – A 40-Year Journey. Invited talk (remote), International School of Astrophysics Daniel Chalonge - Hector de Vega, Paris, France, February 2021.
- Genzel, R.: Presentation of the Jury's Grand Prize. Invited address and discussion (remote), Science Outreach

- Program for Schools, Nobel Prize Museum, Stockholm, Sweden, February 2021.
- Genzel, R.: A 40-Year Journey. Invited talk and discussion (remote), Oxford German Society, Oxford, UK, February 2021.
- Genzel, R.: Impulse aus der Wissenschaft. Address and discussion, (remote), Interner Wissenschaftspolitischer Austausch der bundesgrünen Fraktions- und Parteispitze, Berlin, Germany, March 2021.
- Genzel, R.: A 40-Year Journey. Invited talk (remote), Colloquium University of Portsmouth, UK, March 2021.
- Genzel, R.: A 40-Year Journey. Invited talk (remote), Colloquium Physics Department University of Athens, Greece, March 2021.
- Genzel, R.: A 40-Year Journey. Invited talk (remote), Colloquium Graduate Program in Physics at Pará University, Brazil, March 2021.
- Genzel, R.: A 40-Year Journey. Invited talk (remote), General Astrophysics Colloquium at Leiden Observatory, Leiden, Netherlands, March 2021.
- Genzel, R.: Discussion on where Physics stands and questions (remote discussion). With Henry Kissinger, Eric Schmidt, Klaus Kleinfeld, David Gross and Brian Schmidt, initiated by Lindau Nobel Laureate Meetings, Lindau, Germany, March 2021.
- Genzel, R.: A Night with the Space Nobelists. Interview (remote) with Finnish Physical Society, the University of Helsinki and Aalto University, Finland, April 2021.
- Genzel, R.: A 40-Year Journey. Hans-Jensen Lecture (remote), Heidelberg University, Germany, April 2021.
- Genzel, R.: About the Nobel Prize and the role of science for policy and decision making. Self-introductory speech and panel discussion (remote), Swedish Parliament, Stockholm, Sweden, April 2021.
- Genzel, R.: A 40-Year Journey. Nobel Lecture (remote), Dutch FYSICA meeting (online), The Netherlands, April 2021.
- Genzel, R.: A 40-Year Journey. Invited talk, Nobel Prize Session (remote), APS April Meeting (online), USA, April 2021.
- Genzel, R.: Eine 40-jährige Reise zum Zentrum der Milchstraße. Invited public talk (remote), Magnus-Haus der DPG, Berlin, Germany, April 2021.
- Genzel, R.: A 40-Year Journey. Invited talk (remote), Byurakan Astrophysical Observatory (BAO), Armenia, May 2021.
- Genzel, R.: A 40-Year Journey: From Theoretical Predictions to Empirical Evidence for a Supermassive Black Hole at the Center of the Milky Way. Invited talk (remote), golden webinar at the Institute of Astrophysics of Pontificia Universidad Católica de Chile (IA-PUC), Santiago, Chile, May 2021.
- Genzel, R.: Speech on the SHAW Prize in Astronomy on behalf of the Committee. (remote, recorded), SHAW Prize 2020 Virtual Award Ceremony, Hong Kong, May 2021.
- Genzel, R. Schwarze Löcher & Galaxien. Invited talk, Frühjahrstagung Orden Pour Le Merit, Berlin, Germany, June 2021.
- Genzel, R. Cosmic Evolution of Star Forming Galactic Disks. Invited talk (remote), Celebration of 50 years of Catherine Cesarsky's career in astronomy, Paris, June 2021
- Genzel, R.: Galactic Center, A 40-Year Journey. Colloquium, IRAM, Grenoble, France, June 2021.
- Genzel, R.: A 40-Year Journey. Keynote speech (remote), World of Photonics Congress, Munich, Germany, June 2021.
- Genzel, R.: Nobelpreisträger Reinhard Genzel im Gespräch mit Harald Lesch im Rahmen der Festversammlung der 72. Jahresversammlung der Max-Planck-Gesellschaft. Munich, Germany, June 2021.
- Genzel, R.: Karliczek trifft ...Nobelpreisträger Reinhard Genzel. Interview and discussion, BMBF-Festveranstaltung zu den Nobelpreisen in Lindau, Germany, June 2021.
- Genzel, R.: Galaxien und Schwarze Löcher. Public lecture, Lindau Nobel Laureate Meetings, Lindau, Germany, June 2021.
- Genzel, R.: A 40-Year Journey. Invited talk, Lindau Nobel Laureate Meetings, Lindau, Germany, June 2021.
- Genzel, R.: Dark & Black. Panel discussion, Lindau Nobel Laureate Meetings, Lindau, Germany, June 2021.
- Genzel, R.: Panel Lindau Nobel Conference Opening Ceremony. Made in Germany – Research Perspectives for Young Scientists, panel discussion with Bernd Sibler, Anja Karliczek, Lindau Nobel Laureate Meetings, Lindau, Germany, June 2021.
- Genzel, R.: Eine vierzigjährige Reise (zum schwarzen Loch) – Forschen leben und erleben. Address and keynote speech (remote), Virtueller Empfang des Bayerischen Ministerpräsidenten für neuberufene Professorinnen und Professoren, Staatskanzlei, Munich, Germany, June 2021.
- Genzel, R.: A 40-Year Journey. Invited plenary talk (remote), Sixteenth Marcel Grossmann Virtual Meeting - MG16, July 2021.
- Genzel, R.: Vorstellung: Das Max Planck Institut für extraterrestrische Physik. Address and introductory talk, official visit of Stm. Bernd Sibler at Max Planck Institute for Extraterrestrial Physics, Garching, Germany, July 2021.
- Genzel, R.: Testing the massive black hole paradigm with high-resolution astronomy. Invited talk (remote), Game Changer Seminars, ISSI Bern, Switzerland, July 2021.
- Genzel, R.: A 40-Year Journey. Invited talk (remote), University of Arizona/ Center for Consciousness Studies, Science & Roger Penrose: On the Occasion of his 90th birthday and Nobel Prize, Online Event, USA, August 2021.

- Genzel, R.: A 40-Year Journey – General relativity and supermassive black holes. Invited talk (remote), 42nd edition of the Meeting for the Friendship of Peoples, Rimini, Italy, August 2021.
- Genzel, R.: Galaxien und Schwarze Löcher. Invited talk (remote), DPG Frühjahrstagung, Jena, Germany, August 2021.
- Genzel, R.: A 40-Year Journey. Invited talk (remote), XL Meeting of the Polish Astronomical Society, Szczecin, Poland, September 2021.
- Genzel, R.: Eine 40-jährige Reise zum Zentrum der Milchstraße. Invited public talk (remote), Zooming into the Universe, Tagung der Astronomischen Gesellschaft 2021 (online), Germany, September 2021.
- Genzel, R.: Galaxies and Massive Black Holes. Invited talk (remote) for the virtual seminar series: Precision Physics and Fundamental Symmetries, Germany/ Switzerland, September 2021.
- Genzel, R.: Eine 40-jährige Reise zum Zentrum der Milchstraße. Invited talk (remote), Jean-Hanley-Memorial Lecture, Hauptstadtkongress der DGAI (online), Germany, September 2021.
- Genzel, R.: Eine 40-jährige Reise Invited talk, Treffen der Jugend forscht Landessiegerinnen und -sieger im Fachgebiet Physik, ausgerichtet vom Max-Planck-Institut für extraterrestrische Physik (online), Germany, September 2021.
- Genzel, R.: Eine 40-jährige Reise. Invited talk, Der Bundeswirtschaftssenat im Dialog, Munich, Germany, September 2021.
- Genzel, R.: A 40-Year Journey: Testing General Relativity & The Massive Black Hole Paradigm at the Center of the Milky Way. Invited plenary talk (remote), International Online Conference "Black Holes Inside and Out, USA/ Japan, September 2021.
- Genzel, R.: A 40-Year Journey: Testing General Relativity & The Massive Black Hole Paradigm at the Center of the Milky Way. Invited talk (remote), ESO Event celebrating the Nobel Prize of Physics 2020 (online), Chile, September 2021.
- Genzel, R.: A 40-Year Journey. Invited talk (remote), Photonics Days 2021, Jena, September 2021.
- Genzel, R.: 40-Year Journey. Invited talk (remote), IAP Colloquium (séminaire de l'Institut d'Astrophysique de Paris), Paris, France, October 2021.
- Genzel, R.: Vorstellung: Das Max-Planck-Institut für extraterrestrische Physik. Address and introductory talk, official visit of Dr. Heubisch and delegation from Bayerischer Landtag at Max Planck Institute for Extraterrestrial Physics, Garching, Germany, October 2021.
- Genzel, R.: Galaxien und Schwarze Löcher. Invited talk, Mitgliederversammlung der Heisenberg-Gesellschaft, Munich, Germany, Oktober 2021.
- Genzel, R.: Speech on the SHAW Prize in Astronomy on behalf of the Committee (remote, recorded). SHAW Prize 2021 Virtual Award Ceremony, Hong Kong, October 2021.
- Genzel, R.: A 40-Year Journey. Invited talk (recorded), 4th World Laureates Forum "Open Science" (online), Shanghai, China, October 2021.
- Genzel, R.: Black Holes: From Theoretical Speculation to Fundamental Physics Laboratories. Invited talk (remote), Astrophysics Roundtable, University of California, Berkeley, USA, November 2021.
- Genzel, R.: Verstehen, was nicht zu verstehen ist: Ein Blick auf Metawissen und die Bedeutung von schwarzen Löchern – Prof. Dr. Reinhard Genzel und Prof. Rolf Rodenstock im Gespräch. Invited discussion (recorded), RHI-Fachsymposium (online), Munich, November 2021.
- Genzel, R.: A 40-Year Journey. Invited talk (recorded TED talk), 2021 WE Summit, Beijing, China, 2021.
- Genzel, R.: A 40-Year Journey. Invited talk (remote), II NAT Lectures on Astrophysics, Universidade Cidade de São Paulo (UNICID), Brazil, November 2021.
- Genzel, R.: State of the MPE-IR Group's research and projects. MPE-IR Group Retreat, Ringberg Castle, Germany, December 2021.
- Genzel, R.: Future questions in black hole and galactic nuclei research. MPE-IR Group Retreat, Ringberg Castle, Germany, December 2021.
- Gillessen, S.: The Galactic Center Black Hole. Invited Talk, Regensburg, Germany, February 2021.
- Gillessen, S.: Kepler, Einstein und das Schwarze Loch im Zentrum der Milchstraße. Public Talk, Deutsches Museum, Munich, Germany, February 2021.
- Gillessen, S.: Einstein im Test – Das Schwarze Loch im Zentrum der Milchstraße. Invited Talk, Physik-Olympiade, virtual, Germany, February 2021.
- Gillessen, S.: Schwarze Löcher - Science Fiction oder Realität?. Public Talk, Junior-Uni, Wuppertal, Germany, March 2021.
- Gillessen, S.: Das Schwarze Loch im Zentrum der Milchstraße. Invited Talk, RoundTable, Heilbronn, Germany, November 2021.
- Gillessen, S.: Das Schwarze Loch im Zentrum der Milchstraße. Public Talk, Justinus-Kerner-Gymnasium, Heilbronn, Germany, November 2021.
- Gillessen, S.: Schwarze Löcher - Science Fiction oder Realität?. Public Talk, Schulvortrag, Cuxhaven, Germany, November 2021.
- Gillessen, S.: Das Schwarze Loch im Zentrum der Milchstraße. Public Talk, Auricher Wissenschaftstage, Aurich, Germany, November 2021.
- Grupp, F.: The role of standardization in the development of next generation of large telescopes. Invited Talk, UV/ Optical/IR Space Telescopes and Instruments: Innovative Technologies and Concepts-X, August 2021.
- Haerendel, G.: New Insights into the Onset of a Substorm.

- Colloquium, Space Physics Seminar Series / Rice University / Zoom, Houston, USA, April 2021.
- Halder, A.: The integrated 3-point shear correlation function. Contributed Talk, Cambridge LMU Workshop, remote, January 2021.
- Halder, A.: The integrated 3-point shear correlation function. Colloquium, Density Splits Statistics Group Seminar, Stanford University, March 2021.
- Halder, A.: The integrated 3-point shear correlation function. Invited Talk, Dark Energy Survey Collaboration Meeting, May 2021. oston, USA, April 2021.
- Hu, C.-Y.: Metallicity dependence of the H/H<sub>2</sub> and C+/C/CO distributions in a resolved self-regulating interstellar medium. Cologne ISM group meeting, virtual, May 2021.
- Hu, C.-Y.: Metallicity dependence of the X\_CO factor in a multiphase interstellar medium. IAU Symposium „The predictive power of computational astrophysics“, virtual, November 2021.
- Hu, C.-Y.: Metallicity dependence of the H/H<sub>2</sub> and C+/C/CO distributions in a resolved self-regulating interstellar medium. ISM 2021 conference, virtual, May 2021.
- Hu, C.-Y.: Metallicity dependence of the H/H<sub>2</sub> and C+/C/CO distributions in a resolved self-regulating interstellar medium. MPA cosmology seminar, virtual, March 2021
- Hu, C.-Y.: The dependence of XCO on metallicity, intensity, and spatial scales. CCA galaxy group meeting, virtual, October 2021.
- Jiménez-Redondo, M.: Study of low-temperature ion-neutral interactions in a 22-pole ion trap. Contributed Talk, Laboratory Astrophysics Workshop 2021, Dornburg, Germany, November 2021.
- Kravchenko, K.: Tomography of evolved star atmospheres. Invited Talk, The Death-throes of Evolved stars, a Virtual Encounter, Leuven, Belgium, April 2021.
- Kravchenko, K.: The Great Dimming of Betelgeuse revealed by tomography. Contributed Talk, EAS 2021, virtual meeting, June 2021.
- Kravchenko, K.: MICADO: Instrument overview and cold tests. Contributed Talk, (The Network of Young Researchers in Instrumentation for Astronomy virtual workshop, October 2021.
- Kruk, S.: Galaxy morphology in the era of large surveys. Invited Talk, Modern statistics of Galaxies Series, LMU and USM, Munich, Germany, November 2021.
- Lee, M.: Cold gas in high redshift galaxies. Invited Talk, Seoul National University Colloquium, Seoul, South Korea, June 2021.
- Lee, M.: Gas mass calibration in a z=2.5 protocluster, Galaxy Cluster Formation II (GCF2021). Contributed Talk, Virtual meeting, June 2021.
- Lee, M.: Galaxy evolution in different environments at cosmic noon, DAWN summit 2021. Contributed Talk, Copenhagen and zoom, Denmark/online, September 2021.
- Lee, M.: Earth, Solar system and the Universe (in Korean). Public Talk, Saarbrücken, Germany, May 2021.
- Liu, T.: The eROSITA Final Equatorial Depth Survey (eFEDS): X-ray catalog and AGN spectra. Contributed Talk, 2021 INTEGRAL conference, Pula, Italy, October 2021.
- Malyali, A.: Early results from eROSITA's search for Tidal Disruption Events. Contributed Talk, AAS 237, Virtual, January 2021.
- Malyali, A.: AT 2019avd: a novel addition to the diverse population of nuclear transients. Contributed Talk, eRO-SITA consortium meeting, Virtual, January 2021.
- Meidinger, N.: eROSITA Detector Development for X ray Astronomy. Colloquium, Forum Munich Aerospace, Garching, Germany, May 2021.
- Merloni, A.: New eyes on the X-ray sky: First Results from eROSITA on SRG. Colloquium, ASI, Rome, Italy, January 2021.
- Merloni, A.: New eyes on the X-ray sky: First Results from eROSITA on SRG. Colloquium, DESY, Hamburg, Germany, February 2021.
- Merloni, A.: New eyes on the X-ray sky: First Results from eROSITA on SRG. Colloquium, Astroparticle and Cosmology Lab, Paris, France, February 2021.
- Merloni, A.: New eyes on the X-ray sky: First Results from eROSITA on SRG. Colloquium, Space Telescope Science Institute, Baltimore, USA, March 2021.
- Merloni, A.: Of Bubbles, Filaments, Echoes and Eruptions: First results from eROSITA on SRG. Colloquium, ASTRON, Dwingeloo, The Netherlands, April 2021.
- Merloni, A.: eROSITA on SRG: Mission Status and AGN surveys first results. Invited Talk, American Physical Society April Meeting, Remote, USA, April 2021.
- Merloni, A.: Of Bubbles, Filaments, Echoes and Eruptions: First results from eROSITA on SRG. Colloquium, University of Groningen, Groningen, The Netherlands, May 2021.
- Merloni, A.: Of Bubbles, Filaments, Echoes and Eruptions: First results from eROSITA on SRG. Colloquium, FAU, Erlangen, Germany, May 2021.
- Merloni, A.: Galaxy Clusters and AGN with SRG/eROSITA. Invited Talk, EAS Meeting, S3, Leiden, The Netherlands, June 2021.
- Merloni, A.: The X-ray variability of galactic nuclei as probed by SRG/eROSITA. Invited Talk, EAS Meeting, SS18, Leiden, The Netherlands, June 2021.
- Merloni, A.: eROSITA on SRG: early science highlights and transients. Invited Talk, ULTRASAT Workshop, Tel Aviv, Israel, October 2021.
- Merloni, A.: Of Bubbles, Filaments, Echoes and Eruptions: First results from eROSITA on SRG. Colloquium, ISSI 'Game Changers' Series, Bern, Switzerland, October 2021.
- Merloni, A.: Of Bubbles, Filaments, Echoes and Eruptions:

First results from eROSITA on SRG. Colloquium, Stockholm University, Stockholm, Sweden, November 2021.

Merloni, A.: Of Bubbles, Filaments, Echoes and Eruptions: First results from eROSITA on SRG. Colloquium, IRAP, Toulouse, France, November 2021.

Merloni, A.: Of Bubbles, Filaments, Echoes and Eruptions: First results from eROSITA on SRG. Colloquium, Beijing University, Beijing, China, November 2021.

Merloni, A.: Of Bubbles, Filaments, Echoes and Eruptions: First results from eROSITA on SRG. Colloquium, University of Bologna, Bologna, Italy, November 2021.

Merloni, A.: Status of the SRG/eROSITA telescope and scientific results of the German consortium. Invited Talk, IKI High-Energy Astrophysics Conference, Moscow, Russia, December 2021.

Merloni, A.: Introducing eROSITA on SRG. Invited Talk, EAS 2021 (Press Conference dedicated to eROSITA EDR), Leiden, The Netherlands, June 2021.

Müller, T.: Revisiting Ryugu's pre-/post-mission thermal observations: emissivity determination. Contributed Talk, Europlanet Science Congress 2021, Virtual, September 2021.

Müller, T.: Interpretation of Short-Wavelength Thermal Observations: The Case of Ryugu. Contributed Talk, Rock, Dust and Ice: Interpreting planetary data, Virtual, March 2021.

Müller, M. B.: Ice, Ice, Baby - Chemie im All und die Geburt von Sternen. Invited Talk, Talk for the JungChemikerForum of the University Würzburg, Würzburg (virtual), Germany, April 2021.

Müller-Seidlitz, J.: Silicon Detectors for Future X-Ray Astrophysics. Invited Talk, Silicon Sensors for Precision Radiation Detection and Quantum Applications, MPI Semiconductor Laboratory, Virtual Symposium, Munich, Germany, September 2021.

Parikh, T.: Stellar Population Analysis: A Sample of MUSE Galaxies. Invited Talk, Galaxy Breakfast Meeting, remote, Institute of Cosmology and Gravitation, University of Portsmouth, UK, February 2021.

Parikh, T.: Probing the IMF using a sample of MUSE Galaxies: Stellar Population and Dynamical Constraints. Contributed Talk, EAS 2021, Leiden, Netherlands, June 2021.

Pezzotta, A.: Testing one-loop galaxy bias. Invited Talk, Cosmology Seminar, Lorentz Institute for theoretical physics, Leiden University, Leiden, Netherlands, November 2021.

Pineda, J.: The role of Streamers on star and disk formation: mirage or reality?. Invited Talk, Ringberg: Puzzles of Star Formation, Kreuth, Germany, July 2021.

Predehl, P.: eROSITA on SRG The new X-ray All-sky Survey. Invited Talk, Theseus 2020 Conference, Malaga (Zoom), Spain, March 2021.

Predehl, P.: X-ray Instrumentation to observe the Universe. Invited Talk, High Precision X-ray Measurement

2021, Frascati (Zoom), Italy, June 2021.

Predehl, P.: The hot and energetic Universe and the X-ray Telescope eROSITA. Colloquium, MPI für Kernphysik, Heidelberg (Zoom), Germany, July 2021.

Predehl, P.: eROSITA und das heiße Universum. Public Talk, Planetarium Hamburg, Hamburg, Germany, November 2021.

Predehl, P.: eROSITA und das heiße Universum. Public Talk, Sternfreunde Nordenham, Nordenham, Germany, October 2021.

Predehl, P.: eROSITA und das heiße Universum. Public Talk, Olbers-Gesellschaft, Bremen, Germany, October 2021.

Predehl, P.: eROSITA - Eine neue Himmelsdurchmusterung im Röntgenlicht. Public Talk, Museum für Naturkunde, Münster, Germany, October 2021.

Price, S.: Probing the structure and dynamics of distant massive star-forming galaxies with MICADO and HARMONI: From galaxy to clump scales. Contributed Talk, Spatially Resolved Spectroscopy with Extremely Large Telescopes, Oxford (virtual), UK, Sept 2021.

Pulsoni, C.: The outer reaches of galaxies: structure, kinematics, and accretion history. Invited Talk, EAS 2021, Leiden, Netherlands, June 2021.

Pulsoni, C.: The stellar halos of ETGs in the IllustrisTNG simulations. Invited Talk, EAS 2021, Leiden, Netherlands, June 2021.

Pulsoni, C.: The stellar halos of massive ETGs. Contributed Talk, RU-D Science Day of the ORIGINS Excellence Cluster, Garching, Germany, September 2021.

Pulsoni, C.: The stellar halos of ETGs in the IllustrisTNG simulations. Colloquium, Galaxy Evolution Seminar, Oxford, UK, February 2021.

Pulsoni, C.: The stellar halos of ETGs in the IllustrisTNG simulations. Colloquium, OPINAS Seminar, Garching, Germany, February 2021.

Pulsoni, C.: The structure of stellar halos in early type galaxies. Colloquium, MPE institute seminar, Garching, Germany, December 2021.

Rab, Ch.: Constraining the energetic particle flux of young stars during the period of planet formation.. Contributed Talk, Virtual Meeting of the German Astronomical Society - Zooming into the Universe, Online, Germany, September 2021.

Rab, Ch.: Detecting PAHs in exoplanets and planet-forming disks with Twinkle. Contributed Talk, Twinkle and the Next Generation of Exoplanet Scientists, Online, Online, September 2021.

Rab, Ch.: Constraining the energetic particle flux of young stars during the period of planet formation. Contributed Talk, AGU Fall-Meeting - Session: Cool Stars and Their Influence on (Exo)Planetary Habitability, Online, United States, December 2021.

- Ramos-Ceja, M. E.: Mapping large scale structures at high energies: initial results from eROSITA on SRG. Colloquium, GreatWestern Seminar Series, Bristol, Bath & Cardiff, United Kingdom, February 2021.
- Ramos-Ceja, M. E.: Mapping large scale structures at high energies: initial results from eROSITA on SRG. Colloquium, Chalmers Astrophysics Colloquium, Online, Sweden, May 2021.
- Ramos-Ceja, M. E.: Comparison of X-ray detected and shear-selected galaxy cluster samples in the eFEDS area. Contributed Talk, European Astronomical Society Annual Meeting, Online, Netherlands, June 2021.
- Ramos-Ceja, M. E.: Mapping large scale structures in X-rays: eROSITA in SRG. Invited Talk, Cosmology from Home, Online, Germany, June 2021.
- Ramos-Ceja, M. E.: El Universo en rayos X (in Spanish). Public Talk, Festival de la Familia Marista, Online, Mexico, May 2021.
- Ramos-Ceja, M. E.: El Universo visto en rayos X (in Spanish). Public Talk, Centro Escolar Juana de Asbaje, Zamora, Mexico, December 2021.
- Ramos-Ceja, M. E.: eROSITA-DE Early Data Release (EDR). Invited Talk, EAS 2021 (Press conference dedicated to the eROSITA EDR), Virtual, June 2021.
- Rau, A.: Surveys for Transients - Athena/VRO Synergies. Invited Talk, Rubin-Athena Synergy Workshop, remote, April 2021.
- Rau, A.: Athena/WFI Update. Invited Talk, Athena X-IFU Consortium Meeting #13, remote, May 2021.
- Rau, A.: Tidal Disruption Events - An Overview of eROSITA-DE Findings in eRASS1-3. Contributed Talk, eROSITA Consortium Meeting, remote, June 2021.
- Rau, A.: SRG/eROSITA. Invited Talk, Swift Senior Review Strategy Workshop, remote, November 2021.
- Rau, A.: Athena/WFI Update. Invited Talk, Athena/X-IFU Consortium Meeting #14, remote, November 2021.
- Redaelli, E.: The cosmic-ray ionisation rate in the prestellar core L1544. Invited Talk, Annual meeting of the german astronomical society, Online, Germany, September 2021.
- Redaelli, E.: Identification of prestellar cores in high-mass clumps with ALMA o-H<sub>2</sub>D<sup>+</sup> observations. Contributed Talk, Astrochemical Frontiers - quarantine edition 2.0, Online, Germany, July 2021.
- Redaelli, E.: Molecular fractionation in low-mass star forming regions. Contributed Talk, EAS annual meeting, Online, Germany, July 2021.
- Redaelli, E.: Molecular fractionation in star forming regions. Colloquium, Laura Bassi series - INAF, Online - Padova, Italy, June 2021.
- Salvato, M.: An update on eROSITA. Invited Talk, Accretion History of AGN (AHA) workshop, Virtual, USA, January 2021.
- Salvato, M.: eROSITA contribution to AGN studies. Colloquium, Leibniz Institute Astrophysics (former AIP), Potsdam, Germany, February 2021.
- Salvato, M.: Identification of counterparts to X-ray sources using Machine Learning (but not only). Invited Talk, Chandra data science workshop, Virtual, USA, August 2021.
- Salvato, M.: The eROSITA Final Equatorial-Depth Survey (eFEDS): an unprecedented test bench for AGN studies. Contributed Talk, EAS2021, Virtual, June/July 2021.
- Salvato, M.: The eROSITA Final Equatorial-Depth Survey (eFEDS). Contributed Talk, Supermassive Black Hole Studies with the Legacy Survey of Space and Time 2021, Virtual, July 2021.
- Salvato, M.: Active Galactic Nuclei and the 7 X-ray eyes of eROSITA. Colloquium, St. Andrew University, St. Andrew, UK, November 2021.
- Salvato, M.: Synergies between eROSITA and other observatories. Invited Talk, EAS2021 (Press Conference dedicated to the eROSITA EDR), Virtual, Virtual, June/ July 2021.
- Sanchez, A.: The correct interpretation of RSD measurements. Invited Talk, Cambridge-LMU cosmology workshop, remote, January 2021.
- Sanchez, A.: Let us bury the prehistoric h: arguments against using Mpc/h. Invited Talk, 16th Marcel Grossmann meeting, remote, July 2021.
- Sanchez, A.: Evolution mapping: a new approach to describe non-linear. Colloquium, Cosmology Seminar, MPA Garching, remote, September 2021.
- Sanchez, A.: Evolution mapping: a new approach to describe non-linear. Invited Talk, Modern statistics of cosmic structure series, USM, Munich, October 2021.
- Sanders, J.: New results on galaxy clusters from the eROSITA early data release. Colloquium, Institute of Astronomy, Cambridge (Virtual), UK, June 2021.
- Segura-Cox, D.: Starting Early: Embedded Disks Jumpstart Planet Formation. Colloquium, University of Illinois Department of Astronomy, Urbana, USA, March 2021.
- Segura-Cox, D.: A ringed Class I dust disk accretes envelope material via an accretion streamer. Contributed Talk, From Core to Disk 2, Orsay, France, May 2021.
- Segura-Cox, D.: Starting Sooner: Streamers could Jumpstart Planet Formation in Embedded Disks. Invited Talk, European Astronomical Society (EAS) Annual Meeting 2021, Leiden, Netherlands, June 2021.
- Seppi, R.: The mass function dependence on the dynamical state of dark matter haloes. Contributed Talk, A multi-wavelength view of galaxy clusters: deriving masses in the era of wide-field surveys, Virtual, September 2021.
- Seppi, R.: The mass function dependence on the dynamical state of dark matter haloes. Contributed Talk, UK NAM 2021, University of Bath, UK, virtual, July 2021.



- Shangguan, J.: GRAVITY results on Active Galactic Nuclei. Colloquium, Virtual Seminar at University of Hertfordshire, Hertfordshire, UK, Virtual Meeting, January 2021.
- Shangguan, J.: Probing the active supermassive black hole with VLTI/GRAVITY. Contributed Talk, AG2021, Virtual Meeting, September 2021.
- Shangguan, J.: Resolving the Active Galactic Nuclei with VLTI/GRAVITY. Contributed Talk, EAS2021, Leiden, Netherlands, Virtual Meeting, June 2021.
- Shangguan, J.: Science of VLTI/GRAVITY near-infrared interferometer and the studies of luminous AGNs. Colloquium, British Columbia Galaxy Summer Seminars, Virtual Meeting, June 2021.
- Shimizu, T.: Probing AGN and Feedback with VLTI/ GRAVITY. Contributed Talk, EAS 2021, Leiden, virtual, June 2021.
- Shimizu, T.: GRAVITY+: A Cosmic Evolution Explorer. Invited Talk, EAS 2021, Leiden, virtual, June 2021.
- Shimizu, T.: GRAVITY+: A Cosmic Evolution Explorer. Invited Talk, GRAVITY+ Community Workshop, Garching, virtual, February 2021.
- Shimizu, T.: Resolving the Sub-parsec Structure of AGN with VLTI/GRAVITY. Colloquium, International AGN Seminar Series, Washington D.C., U.S.A., June 2021.
- Sipilä, O.: A Revised Description of the Cosmic Ray- Induced Desorption of Interstellar Ices. Contributed Talk, EAS21 SS15: Molecules in starless and pre-stellar cores, online, July 2021.
- Sipilä, O.: A Revised Description of the Cosmic Ray- Induced Desorption of Interstellar Ices. Contributed Talk, Astrochemical Frontiers 2021, online, July 2021.
- Spezzano, S.: Chemical complexity at the dawn of star formation. Colloquium, Institute Seminar, Heraklion, Crete, March 2021.
- Spezzano, S.: Methanol GEMS: An extensive study on methanol towards starless cores in the Taurus Molecular Cloud. Contributed Talk, Astrochemical Frontiers, online, July 2021.
- Spezzano, S.: H<sub>2</sub>CS deuteration maps towards the pre-stellar core L1544. Contributed Talk, SOFIA workshop, online, June 2021.
- Stadler, J.: Imaging @ GRAVITY. Invited Talk, ESO VLTI image reconstruction coordination meeting, Garching, Germany, April 2021.
- Straub, O.: GR with GRAVITY: latest news from the Galactic Centre. Invited Talk, The 11th "Accretion disk and relativistic astrophysics" meeting, Bremen, Germany, June 2021.
- Straub, O.: GRAVITY: General Relativity in the Galactic Centre. Invited Talk, Hertfordshire, UK, June 2021.
- Straub, O.: GRAVITY: Optical/IR Interferometry and General Relativity in the Galactic Centre. Invited Talk, 16th Marcel Grossmann Meeting, Rome, Italy, July 2021.
- Subramanian, S.: INODE for Astrophysics: SDSS Database. Invited Talk, International INODE EOSC Workshop 2021, remote, may 2021.
- Tacconi, L. J.: The Evolution of the Star Forming Interstellar Medium Across Cosmic Time. Colloquium, Paris (remote via zoom), France, November 2021.
- Tacconi, L. J.: European Leadership in Space Science. Invited Talk, Meeting of the Expert Group on the Future of Space in Europe, Frascati, Italy, July 2021.
- Tacconi, L. J.: Voyage 2050 Recommendations. Invited Talk, ESA Science Programme Committee Meeting, Virtual meeting, Virtual meeting, June 2021.
- Tacconi, L. J.: The Evolution of the Star Forming Interstellar Medium Across Cosmic Time. Colloquium, Hebrew University, Jerusalem (virtual presentation), Israel, May 2021.
- Tacconi, L. J.: The Evolution of the Star Forming Interstellar Medium Across Cosmic Time. Colloquium, Munich Joint Astronomy Colloquium, Garching, Germany, January 2021.
- Übler, H.: Nobelpreis für Physik 2020. Public Talk, Nobelpreis-Matinee 2021, Lindau, Germany, January 2021.
- Valdivia Mena, M. T.: River in the sky: a streamer feeding a Class I protostar. Contributed Talk, European Astronomical Society Annual Meeting, Leiden, The Netherlands, June 2021.
- Valdivia Mena, M. T.: A Class I protostar with a high streamer mass infall rate. Contributed Talk, Gaps, Rings, Spirals, and Vortices: Structure Formation in Planet-Forming Disks / Miapp Conference, Garching, Germany, October 2021.
- van Dishoeck, E.: Our Origins in Space. Public Talk, Late night conference series, Nijmegen, Netherlands, January 2021.
- van Dishoeck, E.: Our Origins in Space. Invited Talk, Prix Jules Janssen lecture, Societe astronomique de France, Paris, France, January 2021.
- van Dishoeck, E.: Our Origins in Space. Invited Talk, Origins conference, Groningen, Netherlands, January 2021.
- van Dishoeck, E.: Our Origins in Space. Public Talk, European Network of Science Centres and Museums (Ecsite) annual conference, Brussels, Belgium, June 2021.
- van Dishoeck, E.: Zooming into planet-forming zones of disks with ALMA. Colloquium, Golden Jubilee talk, Indian Institute of Astrophysics, Bangalore (virtual), India, March 2021.
- van Dishoeck, E.: Zooming into planet-forming zones of disks with ALMA. Colloquium, Physics Dept., Drexel University, Philadelphia (virtual), USA, February 2021.
- van Dishoeck, E.: Zooming into planet-forming zones of disks with ALMA. Colloquium, Astronomy Dept., Tel Aviv University, Tel Aviv (virtual), Israel, February 2021.
- van Dishoeck, E.: Zooming into planet-forming zones of disks with ALMA. Colloquium, Astronomy Dept., Yale Uni-

versity, New Haven (virtual), USA, October 2021.

van Dishoeck, E.: Astrochemistry of diffuse and dense gas: some basics and recent results. Invited Talk, ISM2021 meeting, Beirut (virtual), Lebanon, May 2021.

van Dishoeck, E.: Astrochemistry and the formation of planetary systems. Invited Talk, Symposium in honor of Catherine Cesarsky, Paris (virtual), France, June 2021.

van Dishoeck, E.: The journey of water and complex molecules from clouds to planets. Public Talk, Golden Webinar seminar, Santiago (virtual), Chile, July 2021.

van Dishoeck, E.: Molecular processes in UHV between the stars. Invited Talk, 2nd Faraday Joint Interest Group meeting on Astrochemistry, Sheffield (virtual), UK, March 2021.

van Dishoeck, E.: Molecular processes in UHV between the stars. Invited Talk, American Vacuum Society meeting, Charlotte (virtual), USA, October 2021.

van Dishoeck, E.: Observing simple and complex molecules in space. Invited Talk, Intercat meeting, Sandbjerg, Denmark, September 2021.

van Dishoeck, E.: Deciphering protoplanetary disks: step by step. Invited Talk, Perspective talk, MIAPP meeting on Structure Formation in Planet-forming Disks, Garching, Germany, October 2021.

van Dishoeck, E.: Building stars, planets and the ingredients for life in space. Invited Talk, Kylafis Prize lecture, University of Crete, Heraklion, Greece, October 2021.

van Dishoeck, E.: Synergies and challenges of ground and space astronomy. Invited Talk, ISSI Forum meeting, Bern, Switzerland, November 2021.

van Dishoeck, E.: Nieuwe Werelden, nieuwe perspectieven. Public Talk, Annual lecture, Koninklijke Hollandsche Maatschappij der Wetenschappen, Haarlem (virtual), Netherlands, May 2021.

van Dishoeck, E.: Things we have never seen: the James Webb Space Telescope explores the cosmos. Public Talk, World Science Festival forum, New York (virtual), USA, December 2021.

van Dishoeck, E.: JWST: een nieuwe ontdekkingsreis. Public Talk, Omniversum Planetarium, The Hague, Netherlands, November 2021.

van Dishoeck, E.: Building stars, planets and the ingredients for life in space. Public Talk, Arago Lustrum symposium, Enschede, Netherlands, May 2021.

van Dishoeck, E.: Building stars, planets and the ingredients for life in space. Public Talk, Descartes College, Utrecht, Netherlands, November 2021.

van Dishoeck, E.: Life, the Universe and Everything!. Public Talk, Studium Generale, Eindhoven, Netherlands, September 2021.

van Dishoeck, E.: Where does the water on Earth come from?. Public Talk, Public talk, Beirut (virtual), Lebanon, May 2021.

van Dishoeck, E.: The IAU Today. Invited Talk, Historical, Cultural and Scientific Heritage of Astronomical Observatories, Kazan (virtual), Russia, April 2021.

van Dishoeck, E.: IAU100: Hundred years under one Sky. Public Talk, Communicating Astronomy to the Public Conference, Paris (virtual), France, May 2021.

van Dishoeck, E.: Women in Astronomy and the IAU. Public Talk, University of Crete, Heraklion, Greece, October 2021.

Varga, T.: Synthetic Galaxy Clusters and Images from DES Y3. Colloquium, LSST Cluster cosmology working group, April 2021.

Varga, T.: Synthetic Galaxy Clusters and Images from DES Y3. Colloquium, MPE OPINAS Seminar, MPE Garching, March 2021.

Varga, T.: Synthetic Galaxy Clusters and Images from DES Y3. Colloquium, Excellence Cluster ORIGINS RU-C Science Day, February 2021.

Varga, T.: Synthetic Galaxy Clusters and Images from DES Y3. Colloquium, Cambridge-LMU Collaboration Meeting, January 2021.

Varga, T.: Synthetic Galaxy Clusters and Images from DES Y3. Contributed Talk, LSST-DESC Cluster working group telecon in-kind contribution update 2021, September 2021.

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