

# Maciek Wielgus

Incomplete list of talks. Updated: September 2022

## Professional talks, presentations, and seminars (incomplete before 2020)

67. 2022-09-14, 31st Texas Symposium on Relativistic Astrophysics, Prague, Czechia  
*Observing hot spots orbiting Sagittarius A\* with ALMA* (conference talk),
66. 2022-09-06, 22nd Polish-Slovak-Czech Optical Conference, Wojanow, Poland  
*Event Horizon Telescope and the progress in very long baseline interferometry* (invited plenary),
65. 2022-08-22, Max Planck Institute for Extraterrestrial Physics, Garching, Germany  
*Polarized millimeter light curves of Sagittarius A\** (invited seminar),
64. 2022-07-21, Instituto de Astrofísica e Ciências do Espaço, Portugal  
*Event Horizon Telescope, black hole shadow and photon rings* (lecture at the internship program),
63. 2022-07-18, COSPAR 2022: 44th Scientific Assembly, Athens, Greece  
*Photon ring of a black hole: from theory to observations* (conference talk),
62. 2022-07-07, Paris Observatory, France  
*First image of the black hole shadow in Sagittarius A\** (invited seminar),
61. 2022-07-06, CMB-S4 Workshop, University of Illinois Urbana-Champaign, USA (virtual)  
*Variability of Sagittarius A\* at millimeter wavelengths* (conference talk),
60. 2022-06-29, EAS Annual Meeting, Valencia, Spain  
*Variability of the Sagittarius A\* millimeter light curves* (conference talk),
59. 2022-06-21, EHT Collaboration Meeting, Granada, Spain  
*Sgr A\* polarized ALMA lightcurves* (conference talk),
58. 2022-06-09, KIPAC, Stanford University, USA  
*First image of the black hole shadow in Sagittarius A\** (invited seminar, virtual),
57. 2022-06-08, Nicolaus Copernicus Astronomical Center, Warsaw, Poland  
*First image of the black hole shadow in Sagittarius A\** (invited seminar),
56. 2022-06-06, AGN Seminar at NASA Goddard Space Flight Center, USA  
*First image of the black hole shadow in Sagittarius A\** (invited seminar, virtual),
55. 2022-06-02, Event Horizon Telescope Polarimetry Working Group telecon  
*Polarized millimeter light curves of Sagittarius A\** (EHT working group talk),
54. 2022-05-20, 5th Black Hole Initiative Conference, Harvard University, USA  
*Variability of the Sagittarius A\* millimeter light curves* (invited talk),
53. 2022-02-17, AGN Seminar at NASA Goddard Space Flight Center, USA  
*Observing AGN sources with the EHT* (invited seminar, virtual),
52. 2021-12-09, Max Planck Institute for Radio Astronomy, Bonn, Germany (invited seminar)  
*Black hole shadows, photon rings and critical curves - can we test gravity with the EHT images?*,
51. 2021-11-03, next generation EHT Virtual Conference (virtual conference talk)  
*Photon rings of spherically symmetric black holes and robust tests of non-Kerr metrics*,
50. 2021-10-20, Narayan's group meeting, Center for Astrophysics, Cambridge, USA (seminar)  
*Photon rings of spherically symmetric black holes and robust tests of non-Kerr metrics*,
49. 2021-09-16, Polish Astronomical Society annual meeting, Szczecin, Poland  
*Event Horizon Telescope* (virtual conference talk),
48. 2021-09-07, 23rd RAGtime Workshop, Opava, Czechia  
*Current and future tests of gravity with black hole shadows* (invited conference talk),
47. 2021-07-22, Instituto de Astrofísica e Ciências do Espaço, Portugal  
*Event Horizon Telescope, black hole shadow and photon rings* (lecture at the internship program),
46. 2021-07-09, 16th Marcel Grossmann Meeting (virtual, invited conference talk)  
*Shadows of the past, shadows of the future*,

45. 2021-07-06, 16th Marcel Grossmann Meeting (virtual, invited conference talk)  
*Would we know a wormhole if we saw one?*,
44. 2021-07-05, 16th Marcel Grossmann Meeting (virtual, invited conference talk)  
*Event Horizon Telescope Paper VII: imaging the polarized emission around M 87\**,
43. 2021-06-29, EAS Annual Meeting 2021 (virtual, poster)  
*Studying dynamics of the innermost part of the accretion flow in M87 with the EHT*,
42. 2021-05-06, Los Alamos National Laboratory, Center for Theoretical Astrophysics, USA  
*Resolving the polarized emission from the core of the M87 galaxy with the EHT* (inv. seminar),
41. 2021-04-29, Silesian University in Opava, Czechia (invited seminar)  
*Polarized emission around the M87 supermassive black hole*,
40. 2021-04-08, Paris Observatory, France (invited seminar, virtual)  
*Resolving the polarized emission from the core of the M87 galaxy with the EHT*,
39. 2021-04-05, SLAC Seminar, Stanford University, USA (invited seminar, virtual)  
*Polarized emission around the M87 supermassive black hole*,
38. 2021-04-01, Xiamen University, China (invited seminar, virtual)  
*Resolving the polarized emission from the core of the M87 galaxy with the EHT*,
37. 2021-03-12, Institute of Theoretical Physics & Astrophysics, Masaryk University, Brno, Czechia  
*Probing space time geometry with the Event Horizon Telescope* (invited seminar, virtual),
36. 2021-03-09, Faculty of Mechatronics, Warsaw University of Technology, Poland  
*Introduction to Bayesian methods of parameters estimation* (lecture and workshop),
35. 2021-03-03, Fudan University, Shanghai, China  
*Studying compact objects in the age of black hole images* (invited seminar, virtual),
34. 2021-02-25, Science at the Horizon: the Next-Generation EHT Conference (virtual)  
*Photon ring signature of non-Kerr spacetimes* (conference talk),
33. 2021-02-24, Institute of Astronomy and Astrophysics, Academia Sinica, Taiwan  
*Studying compact objects in the age of black hole images* (invited seminar, virtual),
32. 2021-01-11, Tsinghua University, Beijing, China  
*The radio-bright future of studying black holes* (invited seminar, virtual),
31. 2020-12-22, Shanghai Observatory, China  
*Studying compact objects in the age of black hole images* (invited seminar, virtual),
30. 2020-12-15, 4th Black Hole Initiative Conference, Harvard University, USA  
*Monitoring the Morphology of M87\* in 2009-2017 with the EHT* (conference talk, virtual),
29. 2020-10-28, Institute of Physics, University of Szczecin, Poland  
*Monitoring M87\* in 2009-2017 with the EHT* (invited seminar),
28. 2020-10-27, National Centre for Nuclear Research Astrophysics, Swierk, Poland  
*Monitoring M87\* in 2009-2017 with the EHT* (invited seminar),
27. 2020-09-21, Cologne / Prague Conference: Exploring of the Universe (virtual)  
*Monitoring M87 in 2009-2017 with the Event Horizon Telescope* (conference talk),
26. 2020-08-12, Astronomical Institute of the Czech Academy of Sciences, Prague, Czechia  
*Monitoring the Morphology of M87 in 2009-2017 with the EHT* (seminar),
25. 2020-05-06, Nicolaus Copernicus Astronomical Center, Warsaw, Poland  
*Puffy accretion disks and how to find them* (invited seminar),
24. 2020-03-11, Nicolaus Copernicus Astronomical Center, Warsaw, Poland  
*Modeling 2009-2013 observations of M87\* with an asymmetric ring* (invited seminar),
23. 2020-02-27, Silesian University, Opava, Czechia  
*Modeling 2009-2013 observations of M87\* with an asymmetric ring* (invited seminar),
22. 2020-02-18, Radboud University, Nijmegen, Netherlands  
*Modeling 2009-2013 observations of M87\* with an asymmetric ring* (invited seminar),
21. 2019-11-01, NEROC Symposium, MIT Haystack Observatorium, USA  
*Event Horizon Telescope - expansion plans* (conference talk),

20. 2019-10-23, New Horizons in Galactic Center Astronomy and Beyond, Yokohama, Japan  
*Analyzing time variability of Sgr A\* in the Event Horizon Telescope data* (conference talk),
19. 2019-10-11, IAU 356, Addis Ababa, Ethiopia  
*Observing AGN sources with the Event Horizon Telescope* (conference talk),
18. 2019-09-27, University of Waterloo, Canada  
*Optically thick accretion: from theory to the most recent results* (invited seminar),
17. 2019-09-18, 21st RAGtime Workshop, Opava, Czechia  
*Probing GR with the Event Horizon Telescope* (invited conference talk),
16. 2019-05-21, 3rd Black Hole Initiative Conference, Harvard University, USA  
*EHT data set reduction and calibration* (conference talk),
15. 2019-05-15, Department of Physics, University of California in Santa Barbara, USA  
*First results from the Event Horizon Telescope* (invited talk),
14. 2019-05-14, KIPAC, Stanford University, USA  
*First results from the Event Horizon Telescope* (invited seminar),
13. 2019-05-09, 1st CTA Science Symposium, Bologna, Italy  
*Event Horizon Telescope* (conference talk),
12. 2019-05-03, University of Amsterdam, Pannekoek Institute, Netherlands  
*First results from the Event Horizon Telescope* (invited talk),
11. 2019-04-18, Paris Observatory, France  
*First results from the Event Horizon Telescope* (invited seminar),
10. 2019-04-16, Astronomy Department, Yale University, USA  
*First EHT results* (invited seminar),
9. 2019-04-12, Astronomy Department, Tufts University, USA  
*First results from the Event Horizon Telescope* (invited talk),
8. 2018-02-01, CfA, Harvard & Smithsonian, USA  
*Studying variability of Sgr A\* with the EHT* (colloquium),
7. 2017-10-03, Black Hole Initiative, Harvard University, USA  
*Levitating atmospheres of luminous neutron stars* (colloquium),
6. 2015-09-15, SPIE Correlation Optics conference, Chernivtsi, Ukraine  
*The analytic signal in fringe pattern processing* (conference talk),
5. 2014-08-26, IAU 312, Beijing, China  
*Levitating atmospheres of luminous neutron stars* (conference talk),
4. 2013-12-10, SPIE Micro+Nano Materials, Devices, and Systems, Melbourne, Australia  
*Nanocrystalline thin films statistical structural analysis by the automatic image processing* (poster),
3. 2013-09-10, Fringe 2013, 7th International Workshop, Stuttgart, Germany  
*Filtering ESPI Fringe Images with Non-local Means Algorithm* (conference talk),
2. 2013-04-03, MRS Spring Meeting & Exhibit, San Francisco, USA (conference talk)  
*Enhanced Measurements of Displacements and Strains in Quasiperiodic Nanostructures*,
1. 2012-08-23, Adv. Topics in Optoelect., Microelect. and Nanotech., Constanta, Romania (conf. talk)  
*Continuous Wavelet Transform for D-Space Distribution Analysis in Nanocrystalline Materials*

## Outreach talks and public lectures given (incomplete before 2020)

14. 2022-09-13, 31st Texas Symposium on Relativistic Astrophysics, Prague, Czechia (public talk)  
*Seeing the invisible: Imaging the supermassive black hole in the center of our Galaxy*,
13. 2022-05-17, Harvard University Science Center, Cambridge, USA  
*The EHT: Breaking News from the Center of the Milky Way* (public talk and panel discussion),
12. 2021-11-17, XL Żeromski High School, Warsaw, Poland  
*Parę słów o astrofizyce i pracy naukowej* (invited talk for high school students, in Polish),
11. 2021-07-16, Almukantarat Astronomy Club Summer Camp, Zalecze Wielkie, Poland  
*Sezon na czarne dziury* (a lecture for a high school astronomy club, in Polish),

10. 2021-03-29, N. Copernicus Astronomy Center, Warsaw, Poland (Spotkania z Astronomią series)  
*Polaryzacja obrazu czarnej dziury w M87* (popular talk in Polish),
9. 2021-01-21, Copernicus Science Center, Warsaw, Poland  
*Prosto z nieba: sezon na czarne dziury* (public lecture in Polish, virtually on YouTube),
8. 2020-11-30, Photo: Science/ Photography and Scientific Discourses Conference, Prague, Czechia  
*Event Horizon Telescope and Black Hole Images* (keynote talk at a photographic conference),
7. 2020-09-20, N. Copernicus Astronomy Center, Warsaw, Poland (Spotkania z Astronomią series)  
*Teleskop Horyzontu Zdarzeń* (popular talk in Polish),
6. 2020-03-04, Silesian University in Opava, Czechia  
*Shadow of a black hole* (public lecture),
5. 2020-03-04, Silesian University in Opava, Czechia  
*Shadow of a black hole* (public lecture),
4. 2019-09-23, PLNOG 23, Cracow, Poland (invited lecture at an IT conference, in Polish)  
*Biblioteka EHT-imaging, regularized maximum likelihood i pierwszy obraz czarnej dziury*,
3. 2019-09-14, PyCon PL 2019, Zawiercie, Poland (keynote lecture at an IT conference)  
*First image of a black hole: Python DIY*,
2. 2019-04-27, Copernicus Science Center, Warsaw, Poland  
*Teleskop Horyzontu Zdarzeń* (public talk, in Polish),
1. 2019-04-15, Harvard University Science Center, USA (public talk and panel discussion)  
*Photographing Black Holes: First Results from the Event Horizon Telescope*