

Maciek Wielgus

Almost complete list of talks. Updated: July 2024

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

123. 2024-07-24, Korea Astronomy and Space Science Institute, Daejeon, South Korea
Studying black holes with space VLBI (invited talk),
122. 2024-07-19, COSPAR 2024: 45th Scientific Assembly, Busan, South Korea
Diagnosing horizon-scale plasma with the recent observations of Sagittarius A and M87** (invited talk),
121. 2024-07-14, COSPAR 2024: 45th Scientific Assembly, Busan, South Korea
*Rapid multi-wavelength variability in flaring Sagittarius A** (invited talk),
120. 2024-06-20, Physics Department, Ecole Normale Supérieure, Paris, France
We'll test strong gravity with space radiointerferometry (invited talk),
119. 2024-06-13, Paris Observatory, Meudon, France
Sagittarius A revealed* (invited seminar),
118. 2024-05-29, Institute of Astronomy, UNAM, Mexico City, Mexico
Sagittarius A revealed* (invited seminar),
117. 2024-05-23, EHT Collaboration meeting, Mexico City, Mexico
Diagnosing the accretion flow in Sagittarius A with ALMA polarimetry*
116. 2024-05-14, Institute of Radio Astronomy and Astrophysics, Morelia, Mexico
Sagittarius A revealed* (invited seminar),
115. 2024-05-02, University of Wuerzburg, Germany
News from the M87 black hole* (invited seminar),
114. 2024-03-11, ASIAA, Taipei, Taiwan
Radio-bright future of studying black holes (invited seminar),
113. 2024-02-19, University of Mississippi, Oxford, USA
News from the M87 black hole* (invited seminar),
112. 2024-02-07, Nicolaus Copernicus Astronomical Center, Warsaw, Poland
News from the M87 black hole* (invited seminar),
111. 2023-11-30, 25th RAGtime Workshop, Opava, Czechia
Primordial black holes in the Galaxy dark matter (keynote conference talk),
110. 2023-11-29, 25th RAGtime Workshop, Opava, Czechia
Final results of the first EHT observations of M87 - the end of the saga (keynote conference talk),
109. 2023-11-13, Galaphys Workshop, Paris Observatory, France (invited talk, online),
Studying black holes at the horizon-scale (from Bonn to Paris),
108. 2023-10-19, Narayan's group meeting, Center for Astrophysics, Cambridge, USA (seminar)
Are we really observing hot spots orbiting Sagittarius A?*,
107. 2023-10-16, BHI/SAO/EHT Group Meeting, Cambridge, USA
Some research updates and invitations to discussion/collaboration,
106. 2023-09-22, M2FINDERS and Beyond: Magnetic Fields around Black Holes, Ringberg Castle, Germany
Physical conditions on the event horizon scale,
105. 2023-07-17, EHT Polarization WG Meeting, online
*Internal Faraday screen of Sagittarius A**,
104. 2023-07-14, EAS Meeting 2023, Krakow, Poland
The inner life of blazars revealed with the EHT (invited conference talk),
103. 2023-07-13, EAS Meeting 2023, Krakow, Poland
Event horizon scale variability of Sagittarius A probed with millimeter polarized light curves*,
102. 2023-07-12, EAS Meeting 2023, Krakow, Poland
Puffy disks: a numerical model of mildly sub-Eddington accretion,

101. 2023-06-27, EHT Collaboration meeting, Taichung, Taiwan
ALMA light curves of Sagittarius A from 86 to 230 GHz,*
100. 2023-05-25, Silesian University in Opava, Czechia
Observing Sagittarius A with ALMA* (invited seminar, online),
99. 2023-05-09, Goethe University, Frankfurt, Germany
Observing Sagittarius A with ALMA* (invited seminar),
98. 2023-05-02, Radboud University, Nijmegen, Netherlands
Observing Sagittarius A with ALMA* (invited seminar),
97. 2023-04-18, University of Geneva, Switzerland
Observing Sagittarius A with ALMA and the EHT* (invited seminar),
96. 2023-03-16, ngEHT Testing Gravity working group telecon
A very basic intro to the eht-imaging library (online tutorial),
95. 2023-03-14, University of Valencia, Spain
Observing Sagittarius A with ALMA* (invited seminar),
94. 2023-02-21, World Copernican Congress, Toruń, Poland
Imaging black holes with the Event Horizon Telescope (invited conference talk),
93. 2023-02-13, BHI/SAO/EHT Group Meeting, Cambridge, USA
Photon ring of a black hole: from theory to observations (seminar),
92. 2023-02-10, Improving Black Hole Accretion Models with Plasma Theory workshop, Princeton Uni., USA
Observing Sagittarius A with ALMA* (invited conference talk),
91. 2023-01-12, Reconnection and Sgr A* flares workshop, Paris Observatory, Meudon, France
Orbital motion near Sgr A from ALMA data* (invited conference talk),
90. 2022-11-30, Center for Theoretical Physics, Warsaw, Poland
First image of the black hole shadow in the Galactic Center (invited seminar),
89. 2022-11-29, Astronomical Observatory of the University of Warsaw, Poland
*Event Horizon Telescope observations of Sagittarius A** (invited seminar),
88. 2022-11-28, Piwnice Astronomical Observatory, Poland
Observing hot spots orbiting Sagittarius A with ALMA* (invited seminar),
87. 2022-11-24, EHT Europe-Africa plenary meeting (online)
Resolving the inner parsec of quasars with the EHT (invited talk),
86. 2022-11-10, Chandra X-ray Space Telescope Operations Control Center, Burlington, USA
Observing hot spots orbiting Sagittarius A with ALMA and Chandra* (invited seminar),
85. 2022-11-02, High Energy Astrophysics Division at CfA | Harvard & Smithsonian, Cambridge, USA
Observing hot spots orbiting Sagittarius A with ALMA* (invited seminar),
84. 2022-10-31, BHI/SAO/EHT Group Meeting, Cambridge, USA
Observing hot spots orbiting Sagittarius A with ALMA* (seminar),
83. 2022-10-24, Princeton Gravity Initiative, Princeton University, USA
Observing hot spots orbiting Sagittarius A with ALMA* (seminar),
82. 2022-10-11, Geoplanet Doctoral School, Warsaw, Poland
Seeing the invisible: Imaging the supermassive black hole in the center of our Galaxy (invited inaugural lecture),
81. 2022-10-11, 24th RAGtime Workshop, Opava, Czechia
Observing hot spots orbiting Sagittarius A with ALMA* (keynote conference talk),
80. 2022-10-04, next generation EHT science of binaries telecon
Observing hot spots orbiting Sagittarius A with ALMA* (invited virtual seminar),
79. 2022-09-21, EHT-GRAVITY Meeting, Nijmegen, Netherlands
Observing hot spots orbiting Sagittarius A with ALMA* (invited conference talk),
78. 2022-09-14, 31st Texas Symposium on Relativistic Astrophysics, Prague, Czechia
Observing hot spots orbiting Sagittarius A with ALMA* (conference talk),
77. 2022-09-06, 22nd Polish-Slovak-Czech Optical Conference, Wojanow, Poland
Event Horizon Telescope and the progress in very long baseline interferometry (invited plenary talk),

76. 2022-08-22, Max Planck Institute for Extraterrestrial Physics, Garching, Germany
*Polarized millimeter light curves of Sagittarius A** (invited seminar),
75. 2022-07-21, Instituto de Astrofísica e Ciências do Espaço, Portugal
Event Horizon Telescope, black hole shadow and photon rings (invited lecture at the internship program),
74. 2022-07-18, COSPAR 2022: 44th Scientific Assembly, Athens, Greece
Photon ring of a black hole: from theory to observations (conference talk),
73. 2022-07-07, Paris Observatory, France
*First image of the black hole shadow in Sagittarius A** (invited seminar),
72. 2022-07-06, CMB-S4 Workshop, University of Illinois Urbana-Champaign, USA (virtual)
Variability of Sagittarius A at millimeter wavelengths* (invited conference talk),
71. 2022-06-29, EAS Annual Meeting, Valencia, Spain
Variability of the Sagittarius A millimeter light curves* (conference talk),
70. 2022-06-21, EHT Collaboration Meeting, Granada, Spain
Sgr A polarized ALMA lightcurves* (conference talk),
69. 2022-06-09, KIPAC, Stanford University, USA
*First image of the black hole shadow in Sagittarius A** (invited seminar, virtual),
68. 2022-06-08, Nicolaus Copernicus Astronomical Center, Warsaw, Poland
*First image of the black hole shadow in Sagittarius A** (invited seminar),
67. 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),
66. 2022-06-02, Event Horizon Telescope Polarimetry Working Group telecon
*Polarized millimeter light curves of Sagittarius A** (EHT working group talk),
65. 2022-05-20, 5th Black Hole Initiative Conference, Harvard University, USA
Variability of the Sagittarius A millimeter light curves* (invited talk),
64. 2022-02-17, AGN Seminar at NASA Goddard Space Flight Center, USA
Observing AGN sources with the EHT (invited seminar, virtual),
63. 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?,
62. 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,
61. 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,
60. 2021-09-16, Polish Astronomical Society annual meeting, Szczecin, Poland
Event Horizon Telescope (virtual conference talk),
59. 2021-09-07, 23rd RAGtime Workshop, Opava, Czechia
Current and future tests of gravity with black hole shadows (invited conference talk),
58. 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),
57. 2021-07-09, 16th Marcel Grossmann Meeting (virtual, invited conference talk)
Shadows of the past, shadows of the future,
56. 2021-07-06, 16th Marcel Grossmann Meeting (virtual, invited conference talk)
Would we know a wormhole if we saw one?,
55. 2021-07-05, 16th Marcel Grossmann Meeting (virtual, invited conference talk)
*Event Horizon Telescope Paper VII: imaging the polarized emission around M 87**,
54. 2021-06-29, EAS Annual Meeting 2021 (virtual, poster)
Studying dynamics of the innermost part of the accretion flow in M87 with the EHT,
53. 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),
52. 2021-04-29, Silesian University in Opava, Czechia (invited seminar)
Polarized emission around the M87 supermassive black hole,

51. 2021-04-08, Paris Observatory, France (invited seminar, virtual)
Resolving the polarized emission from the core of the M87 galaxy with the EHT,
50. 2021-04-05, SLAC Seminar, Stanford University, USA (invited seminar, virtual)
Polarized emission around the M87 supermassive black hole,
49. 2021-04-01, Xiamen University, China (invited seminar, virtual)
Resolving the polarized emission from the core of the M87 galaxy with the EHT,
48. 2021-03-12, Institute of Theoretical Physics & Astrophysics, Masaryk University, Brno, Czechia
Probing space time geometry with the Event Horizon Telescope (invited seminar, virtual),
47. 2021-03-09, Faculty of Mechatronics, Warsaw University of Technology, Poland
Introduction to Bayesian methods of parameters estimation (lecture and workshop),
46. 2021-03-03, Fudan University, Shanghai, China
Studying compact objects in the age of black hole images (invited seminar, virtual),
45. 2021-02-25, Science at the Horizon: the Next-Generation EHT Conference (virtual)
Photon ring signature of non-Kerr spacetimes (conference talk),
44. 2021-02-24, Institute of Astronomy and Astrophysics, Academia Sinica, Taiwan
Studying compact objects in the age of black hole images (invited seminar, virtual),
43. 2021-01-11, Tsinghua University, Beijing, China
The radio-bright future of studying black holes (invited seminar, virtual),
42. 2020-12-22, Shanghai Observatory, China
Studying compact objects in the age of black hole images (invited seminar, virtual),
41. 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),
40. 2020-10-28, Institute of Physics, University of Szczecin, Poland
Monitoring M87 in 2009-2017 with the EHT* (invited seminar),
39. 2020-10-27, National Centre for Nuclear Research Astrophysics, Swierk, Poland
Monitoring M87 in 2009-2017 with the EHT* (invited seminar),
38. 2020-09-21, Cologne / Prague Conference: Exploring of the Universe (virtual)
Monitoring M87 in 2009-2017 with the Event Horizon Telescope (conference talk),
37. 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),
36. 2020-05-06, Nicolaus Copernicus Astronomical Center, Warsaw, Poland
Puffy accretion disks and how to find them (invited seminar),
35. 2020-03-11, Nicolaus Copernicus Astronomical Center, Warsaw, Poland
Modeling 2009-2013 observations of M87 with an asymmetric ring* (invited seminar),
34. 2020-02-27, Silesian University, Opava, Czechia
Modeling 2009-2013 observations of M87 with an asymmetric ring* (invited seminar),
33. 2020-02-18, Radboud University, Nijmegen, Netherlands
Modeling 2009-2013 observations of M87 with an asymmetric ring* (invited seminar),
32. 2019-11-07, College of Charleston, USA
What can we learn from the first image of a black hole? (invited seminar),
31. 2019-11-01, NEROC Symposium, MIT Haystack Observatory, USA
Event Horizon Telescope - expansion plans (conference talk),
30. 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),
29. 2019-10-11, IAU 356, Addis Ababa, Ethiopia
Observing AGN sources with the Event Horizon Telescope (conference talk),
28. 2019-09-27, University of Waterloo, Canada
Optically thick accretion: from theory to the most recent results (invited seminar),
27. 2019-09-18, 21st RAGtime Workshop, Opava, Czechia
Probing GR with the Event Horizon Telescope (invited conference talk),

26. 2019-05-21, 3rd Black Hole Initiative Conference, Harvard University, USA
EHT data set reduction and calibration (conference talk),
25. 2019-05-15, Department of Physics, University of California in Santa Barbara, USA
First results from the Event Horizon Telescope (invited talk),
24. 2019-05-14, KIPAC, Stanford University, USA
First results from the Event Horizon Telescope (invited seminar),
23. 2019-05-09, 1st CTA Science Symposium, Bologna, Italy
Event Horizon Telescope (conference talk),
22. 2019-05-03, University of Amsterdam, Pannekoek Institute, Netherlands
First results from the Event Horizon Telescope (invited talk),
21. 2019-04-18, Paris Observatory, France
First results from the Event Horizon Telescope (invited seminar),
20. 2019-04-16, Astronomy Department, Yale University, USA
First EHT results (invited seminar),
19. 2019-04-12, Astronomy Department, Tufts University, USA
First results from the Event Horizon Telescope (invited seminar),
18. 2018-02-01, CfA, Harvard & Smithsonian, USA
Studying variability of Sgr A with the EHT* (colloquium),
17. 2017-10-03, Black Hole Initiative, Harvard University, USA
Levitating atmospheres of luminous neutron stars (colloquium),
16. 2017-04-25, Students' Astronomy Club KNAstr at the University of Warsaw, Poland
Event Horizon Telescope (talk),
15. 2016-09-30, ZARM, Bremen University, Germany
Transsonic accretion (lecture),
14. 2016-04-19, Silesian University in Opava, Czechia
Eddington Capture Sphere (seminar),
13. 2015-09-15, SPIE Correlation Optics conference, Chernivtsi, Ukraine
The analytic signal in fringe pattern processing (conference talk),
12. 2014-12-09, Meeting with Copernicus & Hevelius: confrontations with relat. astroph., Krakow, Poland
Levitating super-Eddington atmospheres (conference talk),
11. 2014-08-26, IAU 312, Beijing, China
Levitating atmospheres of luminous neutron stars (conference talk),
10. 2013-12-10, SPIE Micro+Nano Materials, Devices, and Systems, Melbourne, Australia
Nanocrystalline thin films statistical structural analysis by the automatic image processing (poster),
9. 2013-09-10, Fringe 2013, 7th International Workshop, Stuttgart, Germany
Filtering ESPI Fringe Images with Non-local Means Algorithm (conference talk),
8. 2013-07-15, Narayan's group meeting, Center for Astrophysics, Cambridge, USA (seminar)
Eddington capture sphere around luminous stars,
7. 2013-06-24, Narayan's group meeting, Center for Astrophysics, Cambridge, USA (seminar)
On some recent and not so recent developments in signal and image analysis,
6. 2013-04-03, MRS Spring Meeting & Exhibit, San Francisco, USA (conference talk)
Enhanced Measurements of Displacements and Strains in Quasiperiodic Nanostructures,
5. 2012-10-24, Nicolaus Copernicus Astronomical Center, Warsaw, Poland
Eddington capture sphere around luminous stars (seminar),
4. 2012-09-19, 7th PhD Students and Young Scientists Conference, Warsaw University of Technology, Poland
Midpoint-based bidimensional empirical mode decomposition,
3. 2012-08-23, SPIE Adv. Topics in Optoelect., Microelect. and Nanotech., Constanta, Romania (conf. talk)
Continuous Wavelet Transform for D-Space Distribution Analysis in Nanocrystalline Materials,
2. 2011-09-20, 6th PhD Students and Young Scientists Conference, Warsaw University of Technology, Poland
Fringe pattern analysis with bidimensional empirical mode decomposition,

1. 2010-06-17, 7th Partial Differential Equations Forum, Bedlewo, Poland (poster)
Perona-Malik equation in image analysis

Outreach talks and public lectures given (incomplete before 2020)

19. 2023-09-02, Astronomy Club Almukantarāt 40th Anniversary, Frombork, Poland
Sagittarius A: najmroczniejszy sekret Galaktyki*,
18. 2022-12-09, Astronomy Club at Sacred Heart Preparatory, Atherton, USA
Seeing the invisible: Imaging the supermassive black hole in the center of our Galaxy,
17. 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,
16. 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),
15. 2021-11-17, XL Żeromski High School, Warsaw, Poland
Parę słów o astrofizyce i pracy naukowej (invited talk for high school students, in Polish),
14. 2021-07-16, Almukantarāt Astronomy Club Summer Camp, Zalecze Wielkie, Poland
Sezon na czarne dziury (a lecture for a high school astronomy club, in Polish, English: *Season for black holes*),
13. 2021-03-29, N. Copernicus Astronomy Center: Meetings with Astronomy (outreach lecture series)
Polaryzacja obrazu czarnej dziury w M87 (in Polish, English *Polarization of the image of the M87 black hole*),
12. 2021-01-21, Copernicus Science Center, Warsaw, Poland
Prosto z nieba: sezon na czarne dziury (public lecture in Polish, virtually on YouTube),
11. 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),
10. 2020-09-20, N. Copernicus Astronomy Center: Meetings with Astronomy (outreach lecture series)
Teleskop Horyzontu Zdarzeń (in Polish, English: *Event Horizon Telescope*),
9. 2020-03-04, Silesian University in Opava, Czechia
Shadow of a black hole (public lecture),
8. 2019-11-06, Mellow Mushroom pub, Charleston, USA
The insider's tale of the Event Horizon Telescope (Astronomy on Tap pub talk),
7. 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,
6. 2019-09-14, PyCon PL 2019, Zawiercie, Poland (keynote lecture at an IT conference)
First image of a black hole: Python DIY,
5. 2019-07-31, Polish Scientific Network in Boston meeting, MIT, Cambridge, USA
Imaging a black hole with the Event Horizon Telescope (popular talk),
4. 2019-04-27, Copernicus Science Center, Warsaw, Poland
Teleskop Horyzontu Zdarzeń (public talk, in Polish),
3. 2019-04-15, Harvard University Science Center, USA (public talk and panel discussion)
Photographing Black Holes: First Results from the Event Horizon Telescope
2. 2017-04-10, N. Copernicus Astronomy Center: Meetings with Astronomy (outreach lecture series)
Teleskop Horyzontu Zdarzeń (in Polish, English: *Event Horizon Telescope*)
1. 2016-05-23, N. Copernicus Astronomy Center: Meetings with Astronomy (outreach lecture series)
Testy ogólnej teorii względności (in Polish, English: *Tests of general relativity theory*)