



# Sixteenth Marcel Grossmann Meeting

## Tuesday, 6 July 2021

### Gravitational Lensing and Shadows: Block 1 (09:30 - 12:30)

-Conveners: Volker Perlick ; Oleg Tsupko

time	[id] title	presenter
09:30	[421] Images and photon rings of accretion disks surrounding compact objects	Dr VINCENT, Frederic
09:50	[836] Shadow of black holes with a plasma environment in 4D Einstein-Gauss-Bonnet gravity	Dr EIROA, Ernesto F.
10:10	[563] Comparing Kerr-Sen and Kerr-Newman black hole shadows	XAVIER, Sérgio
10:30	[827] Can different black holes cast the same shadow?	DUARTE LIMA JUNIOR, Haroldo Cilas
10:50	[751] Fuzzball Shadows: Emergent Horizons from Microstructure	MAYERSON, Daniel
11:10	[992] Static, equipotential photon surfaces have no hair	CEDERBAUM, Carla
11:30	[771] A Morse-theoretical analysis of gravitational lensing by rotating traversable wormhole	HALLA, Mourad
11:50	[931] Gravitational Lensing by Charged Accelerating Black Holes	Mr FROST, Torben
12:10	General Discussion	

# Wednesday, 7 July 2021

## Gravitational Lensing and Shadows: Block 2 (09:30 - 12:30)

-Conveners: Oleg Tsupko; Volker Perlick

time	[id] title	presenter
09:30	[566] Decoding a black hole metric from interferometric patterns of relativistic images	BOZZA, Valerio
09:50	[805] Geometric optics, its corrections, and Green functions in curved spacetimes	HARTE, Abraham
10:10	[81] Lensing of '69 -- Free lensing from its lens models	WAGNER, Jenny
10:30	[756] Symplectic evolution of an observed light bundle	UZUN, Nezihe
10:50	[86] Weighing spacetime along the line of sight using times of arrival of electromagnetic signals	KORZYNSKI, Mikolaj
11:10	[465] Rotation of polarization in the gravitational field of a laser beam—Faraday effect and optical activity	RÄTZEL, Dennis
11:30	[993] Journeys in the maximal analytic extension of Kerr spacetime – General relativistic visualization	REIBER, Thomas
11:50	[894] Aspects of neutrino mass hierarchy in gravitational lensing	SWAMI, Himanshu
12:10	General Discussion	

# Friday, 9 July 2021

## Gravitational Lensing and Shadows: Block 3 (06:30 - 09:30)

-Conveners: Volker Perlick; Oleg Tsupko

time	[id] title	presenter
06:30	[518] Shadows of the past, shadows of the future	WIELGUS, Maciek
06:50	[72] Plasma lensing	ER, xinzhong
07:10	[1008] Microlensing in terms of an exact lens map	PERLICK, Volker
07:30	[167] Gravitational lensing by rotating Simpson--Visser black holes	GHOSH, Sushant
07:50	[915] Photon regions and umbilic conditions in stationary axisymmetric spacetimes	KOBIALKO, Kirill
08:10	[395] Killing tensors and photon surfaces in foliated spacetimes	BOGUSH, Igor
08:30	[74] Geodesic bilocal operators in Schwarzschild spacetime	SERBENTA, Julius
08:50	[723] Photon region and shadow in a spacetime with a quadrupole moment	HACKSTEIN, Jan
09:10	[1022] Black hole shadow as a standard ruler in cosmology	TSUPKO, Oleg