



# Seventeenth Marcel Grossmann Meeting

## Monday, 8 July 2024

### Extended theories of electromagnetism and their impact on laboratory experiments and astrophysical observations:

#### Monday block 1 - M1 (15:00 - 16:30)

-Conveners: Alessandro D.A.M. Spallicci; Claus Laemmerzahl

time	[id] title	presenter
15:00	[165] Extended Theories of Electro-Magnetism for astrophysics and cosmology	SPALLICCI, Alessandro D.A.M.
15:30	[208] Constraining the photon mass: from the lab to the atmosphere and beyond	Dr MALTA, Pedro
16:00	[18] Tests for the expansion of the Universe	Dr LÓPEZ-CORREDOIRA, Martín

### Extended theories of electromagnetism and their impact on laboratory experiments and astrophysical observations:

#### Monday block 2 - M1 (17:00 - 18:30)

-Conveners: Claus Laemmerzahl; Alessandro D.A.M. Spallicci

time	[id] title	presenter
17:00	[246] Galactic rotation curves in the light of extended theories of electromagnetism	DIB, Abedennour
17:25	[213] Lessons from Stuekelberg theory in Cosmology.	THUPIL, Govindarajan
17:50	[244] Torsion electrodynamics and the axial vector spin–torsion coupling effects in the framework of the Poincaré gauge theory of gravity	Dr TRUKHANOVA, Mariia
18:05	[166] Diffusive interactions between photons and electrons, an application to cosmology	MARMET, Louis

# Friday, 12 July 2024

## Extended theories of electromagnetism and their impact on laboratory experiments and astrophysical observations: Friday block 1 - M1 (15:00 - 16:30)

-Conveners: Claus Laemmerzahl; Alessandro D.A.M. Spallicci

time	[id] title	presenter
15:00	[400] Finding upper bounds on the Bopp length in Bopp-Podolsky theory	PERLICK, Volker
15:25	[179] Square root gauge theory and its applications	Prof. GUENDELMAN, Eduardo
15:50	[170] Useful Predictions from the 5D Vacuum Equation	HOYER, Detlef
16:10	[535] Archimedes: how much does the vacuum weigh?	ALLOCCA, Annalisa

## Extended theories of electromagnetism and their impact on laboratory experiments and astrophysical observations: Friday block 2 - M1 (17:00 - 18:30)

-Conveners: Alessandro D.A.M. Spallicci; Claus Laemmerzahl

time	[id] title	presenter
17:00	[255] Interaction between electromagnetism and gravitation from unified geometric framework	DJEGHLOUL, Nazim
17:25	[159] Auto-stabilized Electron	KARIM, Munawar
17:40	[649] On an electromagnetic analog of MOND	KANATCHIKOV, Igor
17:55	Panel: what we have learnt, what to do next in science and networking	