

Workshop on Mathematical Aspects of Spacetime Physics

29/05/2018.

MTA Wigner RCP, IPNP, Department of Theoretical Physics
1121 Budapest, Konkoly-Thege Miklós út 29-33.
Bldg. III. 3th floor, seminar room

Everybody is welcome, attendance is free.

Program

9:30 Áron Szabó: Jet bundles and some applications in physics

10:00 Marco Modugno: Mathematical Approach to Physical Scales

10:30 András László: Uncovering a hidden symmetry of general relativistic conformally invariant Lagrangians, using the notion of measure line bundles

11:00 Károly Csukás: Beyond Newman-Penrose formalism: the Geroch-Held-Penrose formalism

11:30 Lunch break

13:30 Tamas Fulop: Probability current in zero-spin relativistic quantum mechanics

14:00 Gabor Etesi: The von Neumann algebra of smooth 4-manifolds and a quantum theory of space-time and gravity

14:30 Peter Van: Practical aspects of rigorous spacetime treatments: objectivity, covectors and flow-frames in hydrodynamics.

Papers of Marco Modugno are collected here:

<https://www.unifi.it/p-doc2-2016-200006-M-3f2a352e322b2c-0.html>