

Open Issues in Gravitation

lundi 12 janvier 2026 10:00 (1 heure)

After briefly reviewing some of the high-precision experimental confirmations of General Relativity (GR), the talk will discuss some open issues concerning both physical and mathematical aspects of GR, notably:

- . Tantalizing links between GR and Yang-Mills theory ;
- . Links between Einstein equations and Navier-Stokes equations;
- . Emergence of hidden symmetry structures near cosmological singularities;
- . Peeling properties and symmetry structures near infinity;
- . Skeletonization of Black Holes as point masses;
- . Scarcity of viable extensions of GR.

Orateur: DAMOUR, Thibault (IHES)