Covariant phase space of standard GR and Palatini: metric vs tetrad formulation

Monday, 5 July 2021 19:00 (25 minutes)

Gravity admits several formulations. Some of the most well-known are standard GR and Palatini both in tetrad and metric formulation. In this talk, I will show the equivalence, in the covariant Phase Space, of all four formulations on a spacetime manifold with boundary. To this end, we will rely on the cohomological approach provided by the relative bicomplex framework.

**Primary authors:** MARGALEF, Juan (PSU); Dr BARBERO, Fernando (IEM-CSIC); Dr VILLASEÑOR, Eduardo J.S. (UC3M); VARO, Valle (UC3M)

**Presenter:** MARGALEF, Juan (PSU)

**Session Classification:** Loop Quantum Gravity

**Track Classification:** Quantum Gravity: Loop Quantum Gravity