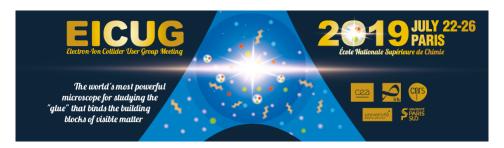
## 2019 EIC User Group Meeting



ID de Contribution: 98 Type: Poster

## Poincaré constraints on the gravitational form factors for massive states with arbitrary spin

lundi 22 juillet 2019 19:30 (15 minutes)

In this talk I will discuss the constraints imposed by Poincaré symmetry on the gravitational form factors appearing in the Lorentz decomposition of the energy-momentum tensor matrix elements. By adopting a distributional approach, one can prove non-perturbatively that the zero momentum transfer limits of the leading two form factors are completely independent of the spin of the states in the matrix elements. Expressing these form factors in terms of generalised parton distributions, this implies that the corresponding linear and angular momentum sum rules are in fact spin-universal.

Author: LOWDON, Peter (Ecole Polytechnique)Orateur: LOWDON, Peter (Ecole Polytechnique)Classification de Session: Poster session

Classification de thématique: Physics