

The experiment of Gravitational Mass Defect

Jiang Dong 1, 2, 3, *

1. Yunnan Observatories, Chinese Academy of Sciences, 396 Yangfangwang, Guandu District, Kunming, 650216, P.R. China.
2. Key Laboratory for the Structure and Evolution of Celestial Objects, Chinese Academy of Sciences.
3. Center for Astronomical Mega-Science, Chinese Academy of Sciences.

The definition of the mass in general relativity always is the biggest problem for the reciprocity between the mass and the spacetime, in especial, geometrization representation of spacetime make the integral result depend on the path and the direction. After the early exploration, gravitational mass defect was predicted by those mathematical results from general relativity. Here we report it is exist in the orbital motion of relativistic binary pulsars. And we would discuss its impact to the experiment of the curvature.