



Contribution ID: 306

Type: **not specified**

Hadron physics meets gravity

Tuesday 30 August 2016 11:00 (30 minutes)

Presented at Confinement XII

Summary

Gravitational-wave observatories are reporting findings at last. The two events detected by LIGO so far are assigned to black-hole mergers, largely because of the large mass of the compact objects triggering the event, so I will start by reviewing what the equation of state of neutron/hadron matter tells us about that maximum mass, and viceversa.

I will quickly mention the Equations of State that astrophysicists and computational physicists working on numerical relativity are using and what improvements seem possible from the particle physics point of view. At last, I will turn the glove around and discuss how one can use the available information from the hadron physics side to constrain modifications of General Relativity.

Primary author: LLANES-ESTRADA, Felipe J. (Dept. Física Teórica I, Universidad Complutense de Madrid)

Presenter: LLANES-ESTRADA, Felipe J. (Dept. Física Teórica I, Universidad Complutense de Madrid)

Session Classification: Plenary

Track Classification: Plenary sessions