



Contribution ID : 5

Type : **not specified**

Gravitational Waves from Oscillaton Star Collisions

Thursday, 11 January 2018 15:50 (20)

I will talk about the GW signatures from the collisions of Oscillatons – which are long-lived non-topological solutions of massive scalar fields. I will describe the technical challenges and present the GW wave forms of such collisions calculated using the numerical relativity code GRCHOMBO. I will show that for black hole end states, the total gravitational waves energy released in such collisions is more than that of BH-BH collisions of equal masses by a significant amount.

What would be the preferred length of your talk?

20 minutes + questions

Primary author(s) : Mr HELFER, Thomas (Kings College London)

Co-author(s) : Dr MUSTFA, Amin (Rice University); Dr LIM, Eugene (King's College London); Dr MARCOS, Garcia (Rice University)

Presenter(s) : Mr HELFER, Thomas (Kings College London)

Session Classification : Session VI