First European Physical Society Conference on Gravitation



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Gravitational Waves from Oscillaton Star Collisions

Tuesday, 19 February 2019 11:52 (17 minutes)

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.

Summary

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