



Dipartimento di Fisica
Università di Cagliari
INFN, Sezione di Cagliari



HIGH ENERGY PHYSICS COLLOQUIA

4 luglio 2016 · ore 15:00 · aula C

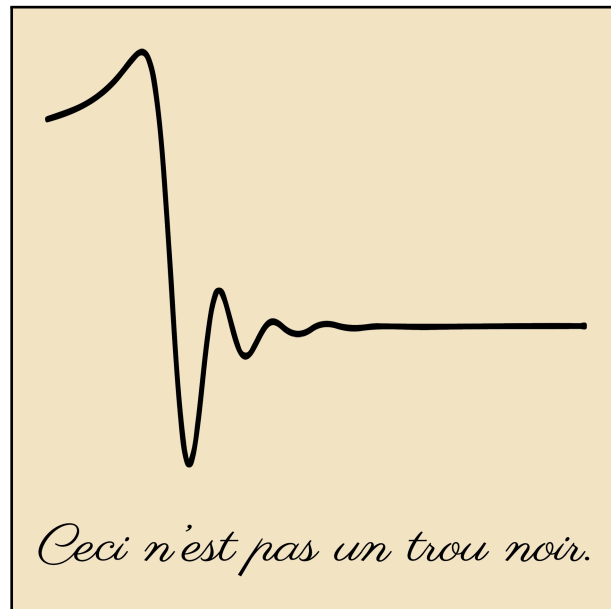
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THE SOUND AND THE NOISE OF BLACK HOLES

Abstract

One hundred years after Einstein's prediction, gravitational waves have been detected for the first time by the Laser Interferometer Gravitational-wave Observatory (LIGO) on September 14, 2015. I will briefly describe the experimental setup and review some very important topics in General Relativity, including black holes, light rings, how to produce gravitational waves and quasi-normal modes. Finally, I will discuss what we can and cannot say from the ringdown signal, and if there is still room for exotic compact objects.



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