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Universidad del País Vasco
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## Seminarios de Física Teórica
## Fisika Teorikoa: Hitzaldiak

# Non-Gaussianities in Primordial Black Hole formation

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**Abstract** I will discuss single-field inflation models able to trigger primordial black hole (PBH) formation. I will show that these models can be classified into two classes, and that for only one of them we are able to make unambiguous predictions for the abundances of PBH and their sensitivity to non-gaussianities. Second , I will compute the amplitude and shape of non gaussianities, and show that for all single field models of inflation the three point function is of the local shape and possibly O(1). Finally I will comment on the consequences for known models of inflation claimed to predict PBH consistent with dark matter.

Prof. A. Chamorro Seminar Room, Dept. of Theoretical Physics, Corridor 4.-2.
**Wednesday, Oct 31st, 2018**
Time:**11:40 am**