## PASCOS 2016: 22nd International Symposium on Particles, Strings and Cosmology



Contribution ID: 211 Type: not specified

## The Origin of the hot Big Bang from the Standard Model Higgs

Wednesday, 13 July 2016 10:40 (20 minutes)

Under general circumstances, the Standard Model Higgs is excited in the form of a condensate during or towards the end of inflation. The Higgs condensate is then forced to decay afterwards —due to non-perturbative effects —into the rest of the SM species. I will present the cosmological implications of this primordial decay, quantifying the necessary conditions to achieve a successful mechanism for 'reheating'the Universe into the SM. If there is enough time, I will also discuss the implications of all this for primordial gravitational waves.

## **Summary**

Primary author: Dr FIGUEROA, Daniel G. (CERN)

Presenter: Dr FIGUEROA, Daniel G. (CERN)

Session Classification: Parallel VI

Track Classification: Inflation and alternatives, Strings, Cosmology