Contribution ID: 4 Type: **not specified** 

## Ruth Gregory: Primordial Black Holes and Higgs Vacuum Decay

Tuesday, 3 December 2019 10:00 (45 minutes)

The recent discovery of the Higgs and its mass suggests that our vacuum may by metastable. I will review how we calculate the probability of vacuum decay and discuss how black holes alter this rate. This leads to a constraint either on primordial black hole formation or the Higgs potential.