THE STRING THEORY UNIVERSE - 22nd European string workshop and Final COST MP1210 Conference



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INVITED TALK 8: Geoffrey Compère

Friday 24 February 2017 10:50 (35 minutes)

Title: The E7 black hole entropy

I will first review the construction of the most general non-extremal single center black hole of N=8 supergravity. Its seed is a black hole with 5 independent electromagnetic charges. The appropriate setting to describe the seed solution is the STU model with SO(4,4) hidden symmetries. Some properties of the black hole will be described such as the existence of two regular extremal limits, the presence of a conformal Killing tensor and a mysterious entropy product formula. I will then describe the construction of an E7 invariant which allows to express the black hole entropy.