

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.