ID contributo: **10** Tipo: **non specificato**

# K3 string theories, symmetries and wall crossing

*martedì 12 settembre 2017 16:30 (45 minuti)*

I will consider a large class of four dimensional N=4 string models obtained from compactifications of type II string theory on K3 x T^2 and orbifolds thereof. I will show that the multiplicities of 1/4 BPS states in such models can be determined (almost) uniquely by imposing some simple consistency condition. The main ingredient in this derivation is a careful analysis of the wall crossing phenomenon. These results lead to a better understanding of the action of discrete groups of symmetries on the BPS spectrum of K3 string models. This talk is based on joint work with Natalie Paquette and Max Zimet.

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