

Séminaire de matrices, cordes et géométries aléatoires

Mercredi 04/12/2019, 14:15-15:15

Orme des Merisiers Salle Claude Itzykson, Bât. 774

Spherical branes, supersymmetric localization and
holography

Pieter Bomans

ITF, Leuven

I will describe a class of supergravity solutions holographically dual to d -dimensional maximally supersymmetric SYM on S^d . Supersymmetric localization can be employed to calculate the partition function and the VEV of a $1/2$ -BPS Wilson lines in the planar limit of the SYM theory. I will present the results of this calculation and will show how they lead to a non-trivial precision test of holography in the context of non-conformal QFTs and space-times that are non asymptotically locally AdS.
