Institut Henri Poincaré

11 rue Pierre et Marie Curie, 75231 Paris cedex 05

String Theory in Greater Paris

Rencontres Théoriciennes

“Supergravité, théorie des cordes et théorie M”

Jeudi 2 Novembre 2023, 10:00

Lorenzo Di Pietro

Trieste University, INFN

BCFT One-Point Functions of Coulomb Branch Operators

I will discuss a method to compute the one-point functions of chiral primary operators in 4d N=2 SCFTs with $\frac{1}{2}$ BPS boundary conditions. A SUSY identity relates these correlators to derivatives of the hemisphere partition function, adapting to the boundary case the known method to compute chiral/antichiral two-point functions. This requires to take appropriate care of certain boundary terms in the Ward identities. I will then show the localization formulas that can be used to derive exact results for these one-point functions. As an explicit example, I will focus on the case of super Maxwell theory coupled to a 3d N=2 SCFT on the boundary.

Institut Henri Poincaré, salle 314, 3ème étage

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