

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, 3<sup>ème</sup> étage**

Retrouvez les activités de la communauté parisienne de théorie des cordes sur  
<http://string.lpthe.jussieu.fr>  
La liste de tous les séminaires en région parisienne est disponible sur  
<http://string.lpthe.jussieu.fr/semparis>

---