



Contribution ID: 10

Type: **not specified**

## **One-point functions in defect CFT, Integrable Matrix Product States, and boundary integrability**

*Tuesday 21 August 2018 14:30 (45 minutes)*

In a CFT with a defect the scaling operators can have non vanishing mean values. At one loop order in planar  $N=4$  SYM the normalization constants of these one-point functions are given by the overlaps between the corresponding Bethe states and a particular Matrix Product State (MPS). These MPS are not eigenstates of the spin chain, but they display very special features: the overlaps are non-zero only for parity symmetric Bethe root configurations, and can be expressed in a factorized form. In this talk we focus on the algebraic properties of these MPS: we explain their relation to boundary integrability and the twisted Yangian, and show how they can be obtained from the twisted Boundary Yang-Baxter relation.

### **Summary**

**Presenter:** POZSGAY , Balázs