

## Abstract

In this talk I will revisit the old problem of logarithmic singularities in 4-point functions of conformal field theories that admit gravity dual descriptions. This feature was first observed in the case of  $\mathcal{N}=4$  super Yang-Mills, through the computation of scatterings in type IIB supergravity on  $AdS_5$ , and it was later understood as  $O(1/N^2)$  renormalization effects. In this talk, I will study the special case of string theory on  $AdS_3$  NS-NS backgrounds, in which the sigma model can be quantized exactly. I will show how the operator product expansion of the four-point functions actually reproduces the same pattern as in  $AdS_5$ . In addition, finite  $\alpha'$  effects appear.