



Contribution ID: 42

Type: **Poster**

On the scattering over the GKP Vacuum

Monday, September 15, 2014 1:30 PM (20 minutes)

Within the framework of the AdS₅/CFT₄ correspondence, the GKP string living on a AdS₅ × S⁵ background finds a counterpart in the antiferromagnetic vacuum state for the spin chain, fruitfully employed to investigate the dual N = 4 SYM superconformal gauge theory. Integrability underlying such a model allows us to analyse the excitations over the vacuum considered, by computing their scattering matrices and dispersion relations.

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Session Classification: Discussion - Posters