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On the scattering over the GKP Vacuum

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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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