



Contribution ID: 272

Type: **not specified**

## The Y-system for scattering amplitudes

*Thursday, July 1, 2010 3:30 PM (1 hour)*

We compute  $N=4$  Super Yang Mills planar amplitudes at strong coupling by considering minimal surfaces in  $AdS_5$  space. The surfaces end on a null polygonal contour at the boundary of  $AdS$ . We show how to compute the area of the surfaces as a function of the conformal cross ratios characterizing the polygon at the boundary. These equations have the form of Thermodynamic Bethe Ansatz equations. The area is the free energy of the TBA system. We consider any number of gluons and in any kinematic configuration.

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