## Lorenzo Bianchi

## Title:

## "Unitarity techniques for two dimensional S-matrices"

## Abstract:

Unitarity techniques have proven to be a powerful tool for the computation of scattering amplitudes in three and four dimensions. Here the same method is applied to several massive two-dimensional models, including the world-sheet AdS5×S5 superstring, to compute  $2\rightarrow 2$  scattering S-matrices at one loop from tree level amplitudes. Evidence is found for a hidden relation with the integrability of the model.