

Aspects of integrable deformations of strings in symmetric spaces and $AdS(5) \times S(5)$

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I will summarize recent work aimed to show that sigma models on (semi-)symmetric spaces F/G admit discrete integrable deformations that can be viewed as deformations of the F/F gauged WZW model. For the $AdS(5) \times S(5)$ world-sheet theory, $F=PSU(2,2|4)$ and the resulting theory has just the right amount of kappa-symmetries, which points to the existence of a new fully consistent deformed string background.

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