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5D super Yang-Mills theory and the correspondence to AdS₇/CFT₆

Saturday 20 July 2013 09:46 (23 minutes)

In this talk I will present our recent results on 5D super Yang-Mills theory and its relation with 6D (2,0) superconformal theory. In particular I will discuss how N^3 behaviour of 5D super Yang-Mills free energy can be derived with the use of localization technique. And then I will show, that results obtained from localization technique in 5D super Yang-Mills are consistent with the corresponding results for compactified 6D theory when we fix masses of hypermultiplet in 5D and modify flat-space relation between Yang-Mills coupling constant and radius of compactification

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