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Giant graviton expansions for N=2 superconformal field theories

Wednesday, 29 November 2023 16:30 (15 minutes)

The giant graviton expansion of the superconformal index gives the finite rank corrections to the calculation of the index of the superconformal field theory via AdS/CFT correspondence. We study the giant graviton expansions focusing on the 4-dimensional N=2 superconformal field theories realized on D3-branes in 7-brane backgrounds with constant axiodilaton. For some theories including them, the expansion can be reduced to a simple sum over the wrapping numbers of the giant gravitons. This talk is based on arXiv:2310.03332 in collaboration with S. Fujiwara, Y. Imamura, T. Mori, and D. Yokoyama.

Presenter: Dr MURAYAMA, Shuichi (Tokyo Institute of Technology)

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