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On the 6d origin of non-invertible symmetries in 4d

Monday, July 4, 2022 4:00 PM (1 hour)

Sometimes it is useful to think of symmetries of quantum fields in terms of quasi-topological defects. One of the advantages of such reformulation is the remark that there are more general notions of symmetries. Recently, several examples of models in 4d with non-invertibile duality and triality symmetry defects have been constructed. In this seminar I will discuss how to exploit 6d SCFTs to reproduce some of these known examples, as well as to generate infinitely many new examples of models with non-invertibile "M-ality"symmetry defects.

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