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Non-invertible Symmetries and theories of class S

Friday 13 January 2023 17:50 (30 minutes)

Non-invertible symmetries is a generalization of a conventional notion of symmetry, which includes symmetry transformations that do not obey the group law, and in particular fail to have the inverse. In this talk I will discuss the construction of such non-invertible symmetries in class S theories, obtained by compactifying 6d (2,0) superconformal field theory on a Riemann surface with no punctures. The simplest example in this family is N=4 SYM. After setting up the general framework, I will describe how such symmetries can be classified up to genus 5. I will also explain the imprints of non-invertible symmetries in the Symmetry TFT of the theories under discussion.

Presenter: BASHMAKOV, Vladimir (Uppsala University)

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