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Non-invertible axial symmetries and Goldstone modes

Wednesday, 15 March 2023 10:00 (20 minutes)

Recent work has shown us a new way to think about systems with an Adler-Bell-Jackiw anomaly, such as QED: they admit a continuous global non-invertible symmetry, an example of a concept which has received much recent attention in the formal field theory literature. I will briefly review this story in an elementary way and present a new kind of non-invertible charge operator where a key role is played by a current operator localized on the charge defect. I'll show that this construction lets us prove an analogue of Goldstone's theorem for such systems.

Presenter: IQBAL, Nabil (Durham University)

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