

Irrelevant deformations by higher-form symmetries

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Zamolodchikov and Smirnov discovered how 2d QFTs can be deformed by an antisymmetric combination of two conserved currents. The landmark example is the \overline{TT} deformation constructed from the stress tensor. After explaining which symmetries these deformations preserve, I will explain higher-dimensional generalizations based on higher-form symmetries. This leads to a curious way to couple a compact scalar field to any theory with $U(1)$ flavour symmetry.

Orateur: LE FLOCH, Bruno (Sorbonne)