Synergies Towards the Future Standard Model

CLUSTER OF EXCELLENCE
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SYNERGIES TOWARDS THE FUTURE STANDARD MODEL

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Non-Invertible Symmetries and Dp-Branes in 2D Compact Boson CFTs

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We investigate non-invertible symmetries in non-linear sigma models in terms of the self-dual momentum lattice. We first recast the well-known T-duality of the c=1 compact boson, which results in the exchange of D0- and D1-branes, in lattice terms. We then move to the toroidal case, which is characterised by a richer duality group and a larger spectrum of Dp-branes, analysing how the introduction of twisted sectors, required for modular invariance after gauging, leads to new Ishibashi states.

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