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Order defect in 4D Chern-Simons theory

Monday, 22 November 2021 11:45 (15 minutes)

The 4D Chern-Simons (CS) theory is a unifying framework of 2D integrable field theories and lattice models. Derivations of integrable field theories from 4D CS theories are based on two classes: order and disorder defects. We develop the aspect of order defects, and derive integrable field theories such as the Faddeev-Reshetikhin model. This approach further admits integrable deformations of the model by adopting appropriate boundary conditions.

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Session Classification: Short talks