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Conformal Fishnet Theory

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I review the last results for CFTs, proposed a couple of years ago by O.Gurdogan and myself, emerging as a double scaling limit of weakly coupled and strongly gamma-twisted N=4 SYM. This is a 3-coupling family of 4D non-unitary CFTs, integrable in planar limit. Its one parameter, bi-scalar reduction is often called “fishnet” CFT. It is generalized to any D dimensions. Among recent achievements, there is an exact computation of 4-point correlation functions of protected operators, providing a rich explicit OPE data, for “fishnet” CFTs, as well as for the full 3-parameter model. We also present the explicit computation of 2D analogue of Basso-Dixon fishnet 4-point function, directly from SL(2,C) spin chain formalism.”

Summary

Presenter: KAZAKOV, Vladimir