

Fundamental physics in the cosmos: The early, the large and the dark Universe



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Yangian Symmetry of Fishnet Feynman Graphs

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We consider an all-loop conformal Yangian symmetry of four-dimensional fishnet Feynman integrals being built from four-valent vertices which are connected via scalar massless propagators. We will discuss the implications of the Yangian symmetry in terms of differential equations for these graphs and also comment on their relation to observables in an integrable bi-scalar field theory in four dimensions. Finally, we will discuss generalizations to fishnet graphs in three and in six dimensions.

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