

On the three-point functions of heavy fields in the SU(2) sector of N=4 SYM

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We present some exact results about the tree-level 3-point function of local single-trace operators in the scalar sector of planar N = 4 supersymmetric Yang-Mills. Explicit expressions are obtained for particular cases involving su(2) and su(3) type fields, where the 3pt function can be written as a determinant. In the limit of large conformal weights of the operators, the 3pt function depends in a universal way of the three quasimomenta and the way they split into a left and right piece.

Presenter: Dr KOSTOV, Ivan (IPhT - Saclay)