

Orthogonal and symplectic Yangians

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We consider Yang-Baxter relations symmetric with respect to orthogonal or symplectic algebra representations, in particular the RLL relations involving the fundamental R-matrix. The generators of the related Yangian algebra are obtained from the expansion of the L-operator in inverse powers of the spectral parameter. In the case when this expansion is truncated the involved algebra generators have to obey additional conditions which can be fulfilled in distinguished representations only.

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