MAFIA - the seminar you can’t refuse

Yangian symmetric correlators–generation by $R$ operator action and by convolution

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Abstract: Yangian symmetric correlators are functions of $N$ points in an $n$-dimensional space obeying an eigenvalue relation with the monodromy operator related to a $gl(n)$ spin chain of $N$ sites. Imposing a regularity condition and specifying the value of $n$ and of the spectral parameters results in contributions to perturbative Yang-Mills scattering amplitudes. Symmetric correlators can be generated by actions with Yang-Baxter $R$ operator or by convolution integrals. They are composed of contributions distinguished by the additional symmetry with respect to linear transformations acting on a subset of points.