

Coproduct of T-series for Yangians in type A

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Shifted Yangians, variations of Drinfeld presentation of Yangian, were introduced by Brundan-Kleshchev (2004) for type A to study the representation theory of W-algebras. We're interested in T-series - formal series with coefficients in the Drinfeld-Cartan generators - originally introduced for quantum affine algebras by Frenkel-Hernandez (2015) to study q -characters. Following the recent construction of T-series for shifted Yangians introduced by Zhang (2024), we give an explicit and compact formula for the coproduct of T-series in type A, from which one can deduce associators and R-matrices for standard Yangians.