

Two-loop master integral for the correlator of two composite fermion currents

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We calculate two-loop massless correlator $G(n_1, n_2, n_3, n_4, n_5; x, y; D)$ of two composite vertexes with Bjorken fractions x and y , arbitrary indices n_i , and arbitrary space-time dimension, D . A closed-form expression for this two-loop kite Feynman diagram with composite vertexes is given in terms of a twofold hypergeometric series. In some special cases it reduces to a sum of univariate hypergeometric functions ${}_3F_2$.

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