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New pole contribution to transverse-momentum-weighted single-transverse spin asymmetry in semi-inclusive deep inelastic scattering

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In this talk, we discuss the new hard pole contribution to the transverse-momentum-weighted single-transverse spin asymmetry in semi-inclusive deep inelastic scattering. We perform the complete next-to-leading order calculation of the $P_{h\perp}$-weighted cross section and show that the new hard pole contribution is required in order to obtain the complete evolution equation for the Qiu-Sterman function derived by different approaches.

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