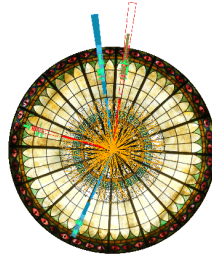


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Scattering amplitudes in TMD-factorisation via BCFW recursion

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We use an extension of the Britto-Cachazo-Feng-Witten (BCFW) recursion relation to evaluate analytically tree-level 5-point matrix elements of two fermions and three gluons with one of the partons off the mass-shell, while preserving gauge invariance.

These amplitudes find their domain of application within the high-energy factorisation (or TMD-factorisation) framework, which requires partons in the scattering process to have an off-shell momentum.

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