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Universality of a New Soft Phase Factor

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The Wilson line in a TMD is needed for gauge invariance, but quantum field theory lays no restriction on the specific path layout except for its endpoints. However, there is no reason to assume that different path structures would lead to equivalent results. Care has to be taken when splitting complicated structures into separate path segments, especially when the path contains obstructions such as cusps or self-intersections. We will present a new Wilson line structure that can be considered as a soft factor and pure phase, and which is constructed to be universal by definition. This structure is carefully chosen in order to avoid any obstructions or phase factors originating from infinity cuts.

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