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A Holographic Description of 3-jet Events in Strongly Coupled Plasma

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We numerically simulate classical falling string configuration with non-trivial transverse dynamics in thermal AdS₅. These strings develop kink-like structures which, in the dual theory, can be interpreted as the propagation of hard gluons produced in association with a quark anti-quark pair. We observe the appearance of two physically distinct regimes of the in-plasma dynamics depending on whether the medium is able to resolve the transverse structure of the string prior its total quench. From these regimes we extract the transverse resolution scale of the strongly coupled plasma of N=4 SYM and confront it with perturbative results.

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