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London penetration depth and coherence length of SU(3) vacuum flux tubes

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The transverse profile of the chromoelectric field generated by a quark-antiquark pair in the SU(3) vacuum is analysed within the dual superconductor scenario, then the London penetration depth and coherence length are extracted.

The color field is determined on the lattice through a connected correlator of two Polyakov loops measured on smeared configurations.

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