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Finite-Range Effects and Coulomb Interactions in Femtosopic Correlation Functions

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We revisit the description of femtosopic correlation functions beyond the asymptotic wave-function approximation, quantifying corrections arising from the short-distance structure of the interaction potential and the finite size of the particle-emitting source. We further extend the formalism by consistently incorporating Coulomb interactions at the short distances relevant for femtoscopy within the Lippmann-Schwinger equation. We introduce a phenomenological parameter that effectively captures the combined impact of finite-source-size effects and the off-shell structure of the interaction, the latter representing one of the main obstacles to extracting detailed information on baryon-meson or, in general, hadron-hadron interactions from femtosopic measurements in a model-independent way.

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