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Use of dispersive meson-meson analyses in Giant CP Violation in B to three light mesons at the LHC beyond leading order

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The LHCb has recently reported a huge CP violation (CPV) in B meson decaying to three charmless light-pseudoscalar mesons, the greatest ever seen. It is strongly believed that this giant CPV is due to strong Final State Interactions (FSI), which amplify the CPV effect. However, the formalism that the LHCb is currently using to describe its phenomenology includes some unnecessary and crude estimates. It is possible to amend those crude estimates by including $\pi\pi \to KK$ dispersive parameterizations. We have developed a formalism that holds FSI and reproduce the experimental data even beyond the leading order in the two-body re-scattering amplitude.

Abstract

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