C7: Temporal Contact Terms in Lattice Feynman-Hellmann Methods

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Recently, Feynman-Hellmann methods have been used to calculate four-point functions in lattice QCD, specifically the forward and off-forward Compton amplitudes. However, these calculations are subject to discretisation artifacts from where the two currents are inserted on the same time slice. Here, we discuss the effects of these temporal contact terms, especially their contribution to the "subtraction function", and techniques to remove them.

Primary authors: HANNAFORD GUNN, Alec (The University of Adelaide); SANKEY, Eddie (University of Adelaide); YOUNG, Ross; ZANOTTI, James (University of Adelaide); CAN, Kadir Utku (RIKEN)

Presenter: HANNAFORD GUNN, Alec (The University of Adelaide)

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