Contribution ID: **322** Type: **Oral Presentation**

An update on RI/IMOM schemes

Monday, August 8, 2022 5:50 PM (20 minutes)

We developed a strategy to implement RI/MOM schemes on quark bilinear and four-quark operators. In these schemes, the momentum transfer is not restricted to the exceptional point or to the symmetric point. In particular, we study the convergence of the perturbative series and the potential to reduce some systematic errors (discretisation and chiral symmetry breaking effects). In particular, we observe a notable reduction of the pseudo-Goldstone pole contributions which could lead to a significant improvement for the renormalisation of some four-quark operators.

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Session Classification: Weak Decays and Matrix Elements

Track Classification: Weak Decays and Matrix Elements