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Non-diagonal current correlators with two different masses up to three-loop order

Current correlators provide an important tool to relate theoretical calculations and experimental measurements. In this talk non-diagonal correlators of scalar, pseudoscalar, vector and axialvector currents are considered coupling to fermions with two different masses m_1 and m_2 . We evaluate moments up to three-loop order considering the hierarchies $m_1 \gg m_2$ and $m_1 = m_2$. It is shown that the combination of the two expansions leads to an excellent approximation of the exact result.

Primary authors: Mr HOFF, Jens (Institute for Theoretical Particle Physics (TTP), Karlsruhe Institute of Technology (KIT)); Prof. STEINHAUSER, Matthias (Institute for Theoretical Particle Physics (TTP), Karlsruhe Institute of Technology (KIT))

Presenter: Mr HOFF, Jens (Institute for Theoretical Particle Physics (TTP), Karlsruhe Institute of Technology (KIT))