

Partial-wave decomposition of the diffractively produced $\pi^- \pi^+ \pi^- \eta$ final state at COMPASS

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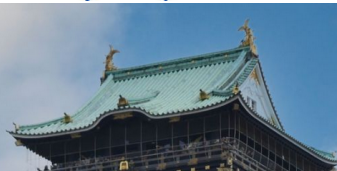
March 29, 2025



HADRON2025

The 21st International Conference on Hadron Spectroscopy and Structure

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Constituent-quark model

- $|q\bar{q}'\rangle$ system with $q = u, d, s$
- Quantum numbers J^{PC}

Constituent-
quark model



LIGHT MESONS: $m < 3 \text{ GeV}/c^2$

Constituent-quark model

- $|q\bar{q}'\rangle$ system with $q = u, d, s$
- Quantum numbers J^{PC}

In unflavored sector: spin-exotics

- Not possible in constituent-quark model:
 $J^{PC} = 0^{--}, (\text{odd})^{-+}, (\text{even})^{+-}$
- Access to exotic states that do not overlap with ordinary mesons

