

Contribution ID: 1

Type: **Invited parallel**

# Hunting the pseudoscalar glueball

*Monday, 29 June 2026 17:20 (25 minutes)*

The pseudoscalar glueball has seen a revival of interest following the observation of the pseudoscalar resonances  $X(2370)$  and  $X(2600)$  at BESIII, which are among the most promising candidates. On the theory side, the pseudoscalar glueball is deeply connected to the chiral anomaly, a fundamental feature of QCD. In this talk, we confront theoretical expectations with experimental findings and review the current status of the candidate states, including predictions for their decay patterns. How close are we to identifying the pseudoscalar glueball? What remains to be done to make a definitive claim? We will highlight both the progress and the key open questions that need to be addressed by future studies.

## Collaboration

**Primary author:** GIACOSA, Francesco (Jan Kochanowski University of Kielce)

**Co-authors:** ROBERT, Pisarski (Brookhaven National Lab); JAFARZADE, Shahriyar

**Presenter:** GIACOSA, Francesco (Jan Kochanowski University of Kielce)

**Session Classification:** Parallel session B7

**Track Classification:** Structure of hadrons