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## A fresh look at the B anomalies

*lundi 18 août 2025 14:00 (20 minutes)*

For nearly a decade, some decays of B mesons have hinted at possible deviations from the Standard Model —raising hopes of new physics, but also questions about underestimated hadronic effects. In this talk, I will take a fresh look at the so-called B anomalies, focusing on the latest experimental results from CMS, LHCb and Belle II. I will discuss the current theoretical understanding of hadronic effects in these decays and the implications for new physics. I'll assess where the anomalies currently stand and whether they genuinely challenge the Standard Model, which has withstood decades of scrutiny.

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**Classification de Session:** B-Decays and CP Violation

**Classification de thématique:** Rare B Decays