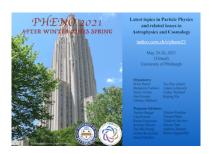
## Phenomenology 2021 Symposium



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## Charmless B decays at Belle II

Monday 24 May 2021 15:15 (15 minutes)

Charmless B decays provide a unique portion of the Belle II program. The expected large signal yields with moderate backgrounds associated with efficient reconstruction of neutral particles enable world-leading determination of the CKM phase  $\alpha/\phi_2$ , a conclusive understanding of the so-called K- $\pi$  CP puzzle, and further insight into the nature of localized CP violation in three-body decays. We report preliminary measurements based on the sample collected during 2019-2020 operations and corresponding to 65 fb<sup>-1</sup> of integrated luminosity. Results include a test of the  $K\pi$  isospin sum-rule, an angular analysis of  $B\to \rho^+\rho^0$  decays, and the reconstruction of a  $B^0\to \pi^0\pi^0$  signal.

## **Summary**

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