

Abstract Submitted  
for the APR21 Meeting of  
The American Physical Society

**Analysis of Decays  $B \rightarrow \pi^+\pi^-\pi^0$  With Full Belle Data Sample<sup>1</sup>**

ERFEI WANG, VLADIMIR SAVINOV, University of Pittsburgh, BELLE COLLABORATION — We report the current status of a time-dependent Dalitz analysis of the decays  $B \rightarrow \pi^+\pi^-\pi^0$  with the full Belle data sample. In this analysis we measure the CKM angle  $\phi_2$  ( $\alpha$ ) and search for BSM sources of CP violation. We discuss the sources of systematic uncertainties including the measurement of  $\pi^0$  reconstruction efficiency as the function of  $\pi^0$  momentum which is important to understand for extracting the final results from the data.

<sup>1</sup>DOE award number DE-SC0007914

Vladimir Savinov  
University of Pittsburgh

Date submitted: 31 Dec 2020

Electronic form version 1.4