

Abstract Submitted
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Searching for $D^0 \rightarrow K^- \pi^+ \eta^0$ in Belle Data¹ YASIEL CABRERA,
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COLLABORATION² — We describe the reconstruction of the CP- decay mode
 $D^0 \rightarrow K^- \pi^+ \eta^0$ in the Belle I data set. Using a set of simulated signal and a generic
simulated sample equal in size to the Belle I data set, we reconstructed 826 events
from an initial sample of 18,900 simulated events for an efficiency of 4.4%. We
studied backgrounds in the generic simulated sample, and checked in the real data.
We found, in agreement with the simulations, no obvious signal in the Belle I data
indicating that further work has to go into suppressing the background.

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