

# The 3rd KMI School Machine Learning in Particle and Astrophysics

Contribution ID : 15

## Breakout room #2: Estimating K-long Reconstruction Efficiency Using sPlot

Tuesday 17 Nov 2020 at 14:20 (01h40')

### Content :

Klongs are identified by hit patterns in KLM, the outermost detector at the Belle II experiment. However some photons and other neutral hadrons can also give hits in KLM. We present here a statistical technique using sPlot, to distinguish between hits pattern in KLM from K-longs vs other backgrounds directly from data. This technique allows one to make a robust determination of K-long reconstruction efficiency in the KLM detector.

**Primary authors :**

**Co-authors :**

**Presenter :** Mr. BISWAS, Diptaparna (University of Louisville)

**Session classification :** Virtual Poster Session

**Track classification :** --not yet classified--

**Type :** --not specified--