



Contribution ID: 353

Type: **Poster Presentation**

## Obtaining the optimal operating point using receiver operating characteristics curve

The use and advantages of Receiver operating characteristic (ROC) curve for a binary classification is discussed in the context of a high energy physics classification problem. In particular, we look into the crucial task of obtaining the optimal cutoff or operating point using the curve for a multidimensional data and propose a novel method to obtain it. The results are illustrated using a standard SUSY data set.

### Experimental Collaboration

**Primary author:** DIVAKARAN, Divya (Homi Bhabha National Institute)

**Presenter:** DIVAKARAN, Divya (Homi Bhabha National Institute)

**Session Classification:** Poster session

**Track Classification:** Detector R&D and Data Handling