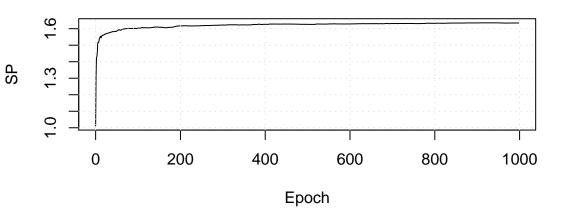
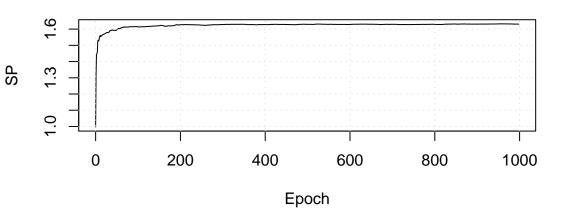
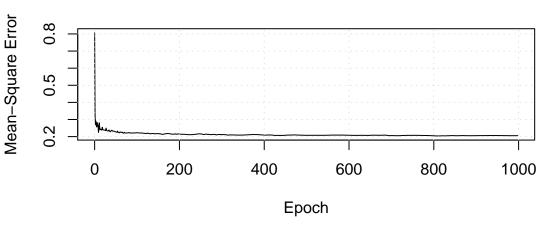
## **SP** evolution (train)



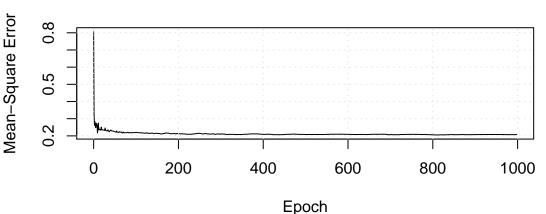
## SP evolution (test)





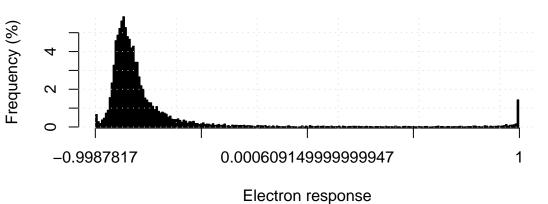


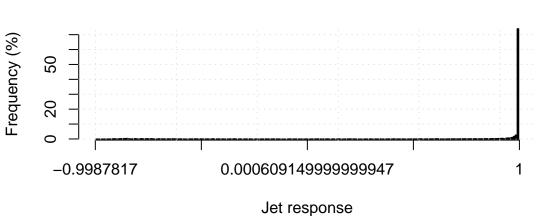






10928 electrons

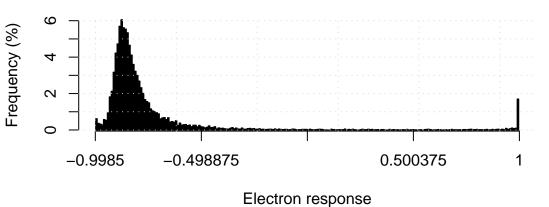


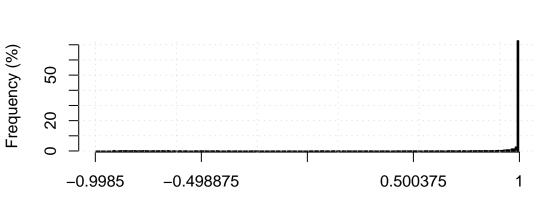


3520 fake electrons (jets)

## **Neural Output (train)**

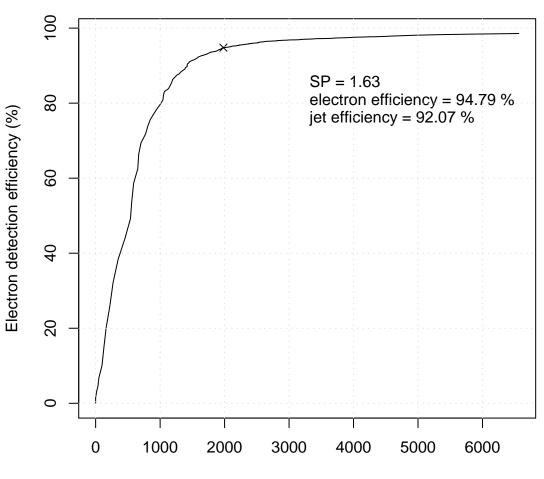
10934 electrons





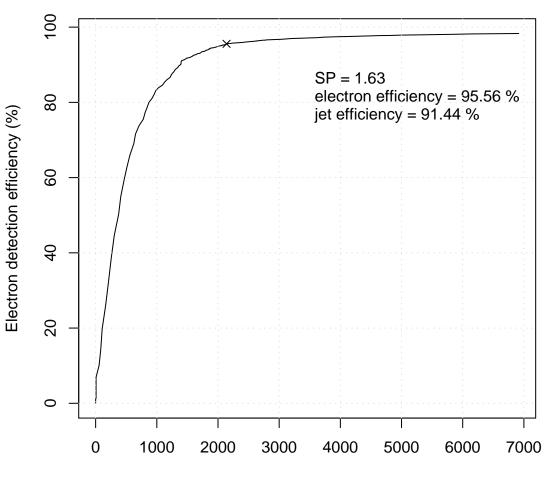
Jet response 3528 fake electrons (jets)

### R.O.C. for e/jet discrimination



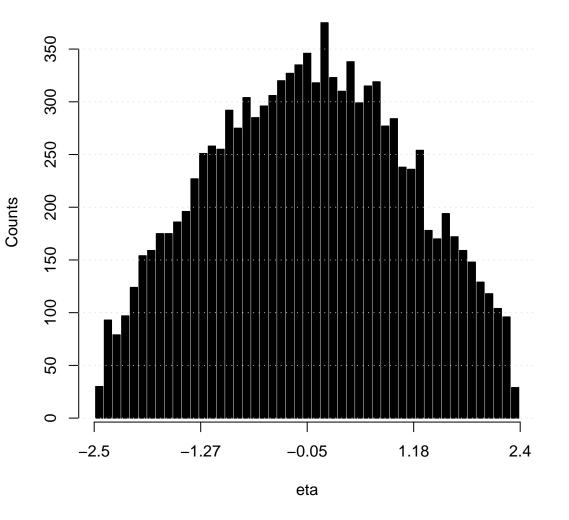
False Alarm (x 25kHz) – Jet background rate [Data from test set]

## R.O.C. for e/jet discrimination

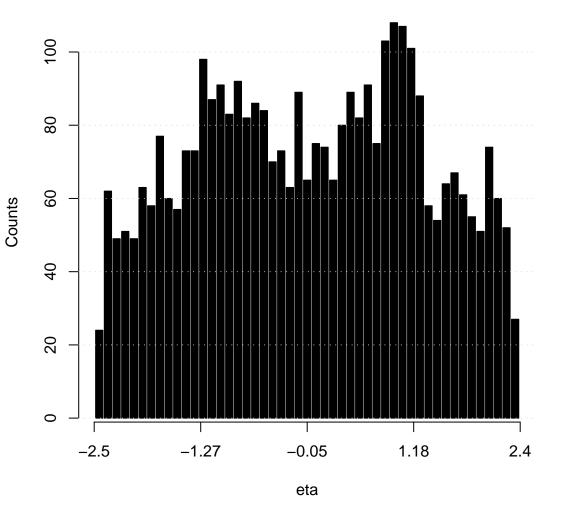


False Alarm (x 25kHz) – Jet background rate [Data from train set]

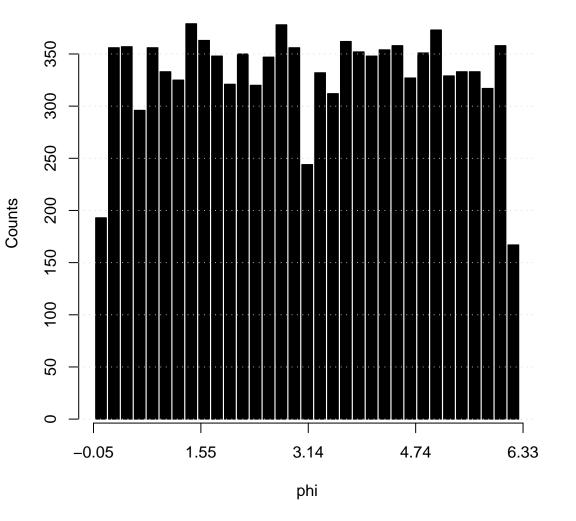
### Electron counts for the test set



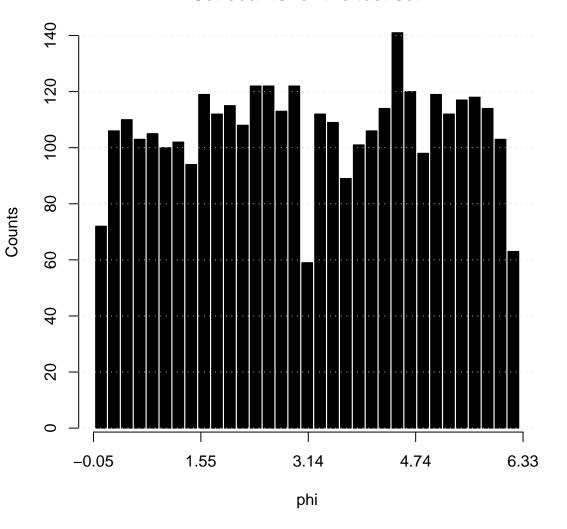
## Jet counts for the test set



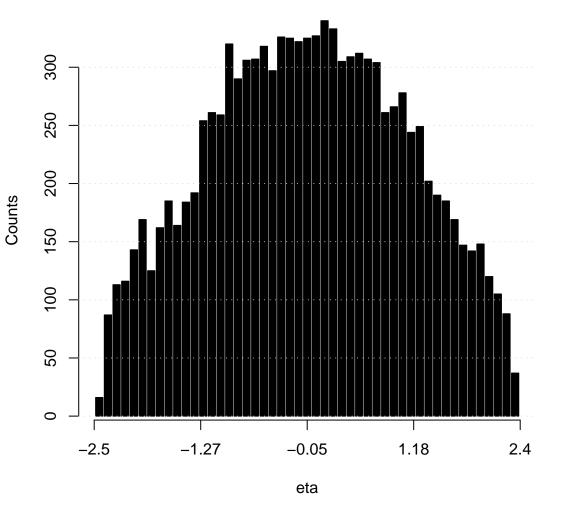
### Electron counts for the test set



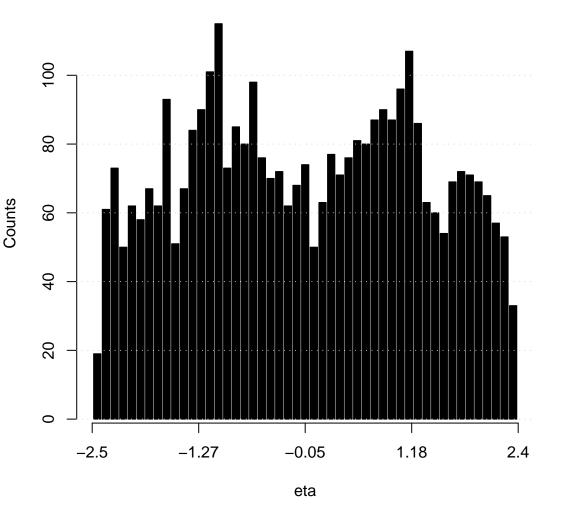
## Jet counts for the test set



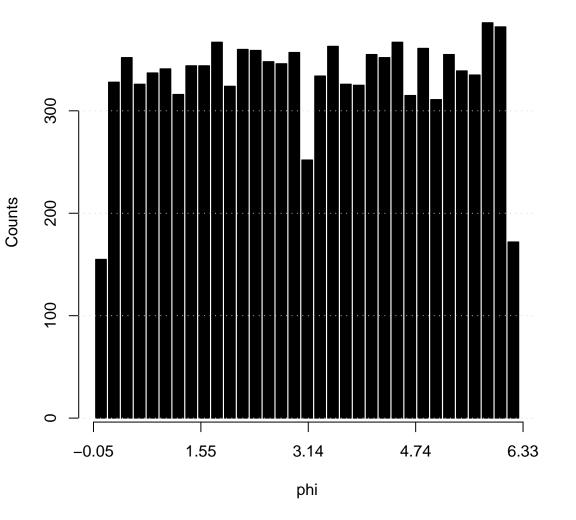
## Electron counts for the train set



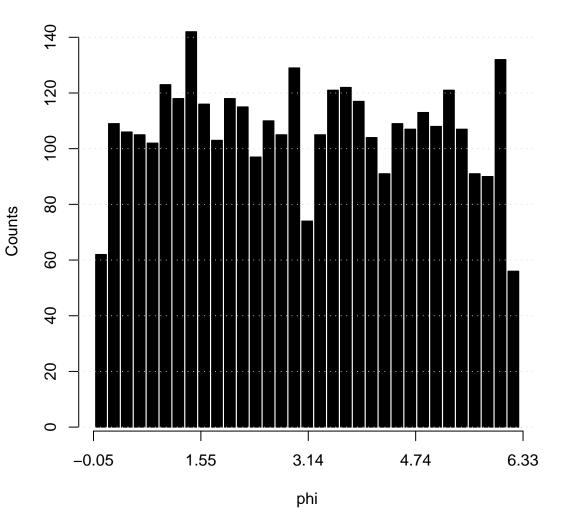
## Jet counts for the train set



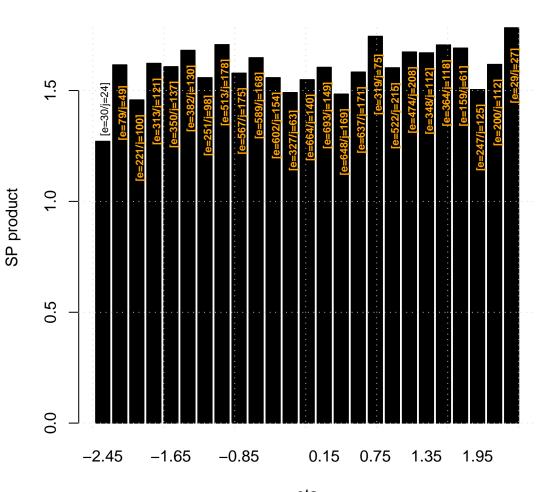
### Electron counts for the train set



## Jet counts for the train set

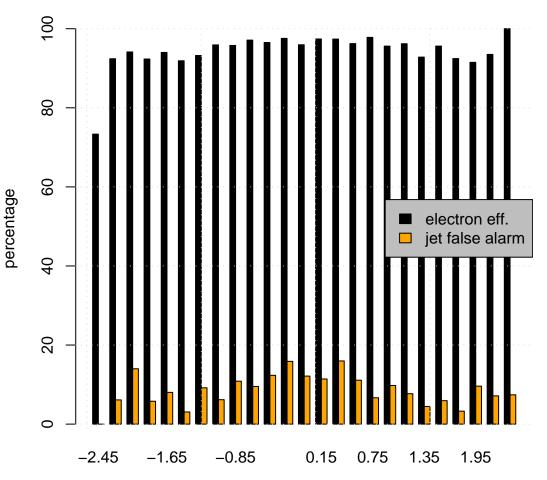


## SP product analysis for the test set



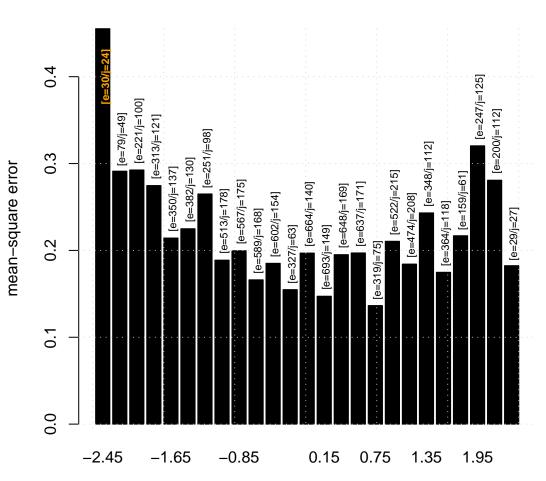
eta [Cut at 0.0015]

# Efficiency analysis for the test set



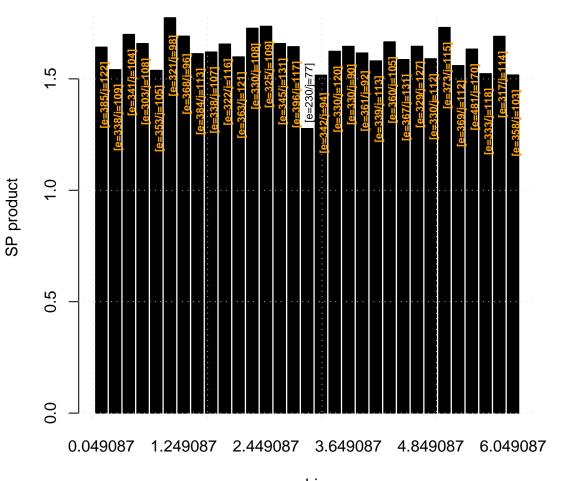
eta [Cut at 0.0015]

### MSE values analysis for the test set



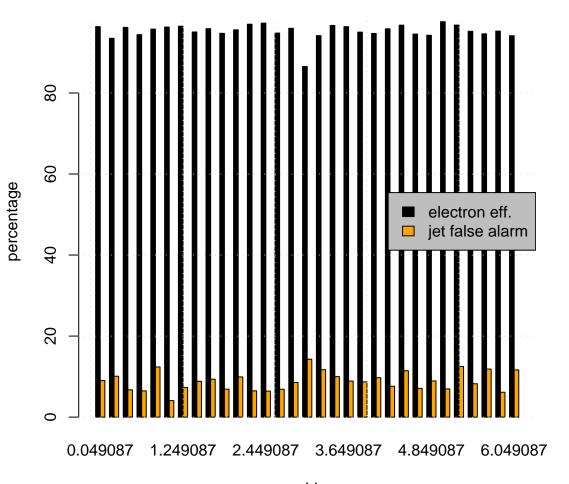
eta [Cut at 0.0015]

## SP product analysis for the test set



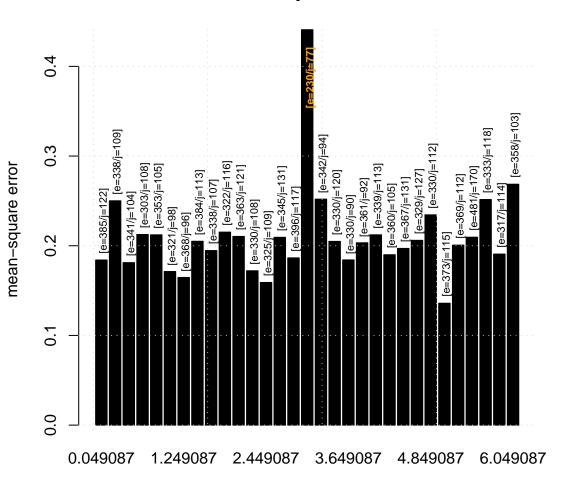
phi [Cut at 0.0015]

## Efficiency analysis for the test set



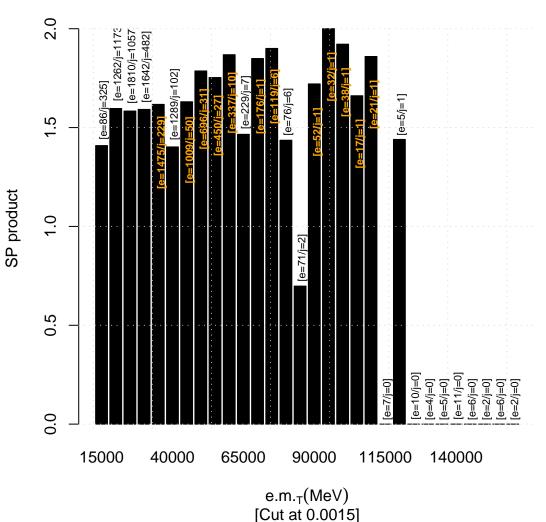
phi [Cut at 0.0015]

#### MSE values analysis for the test set

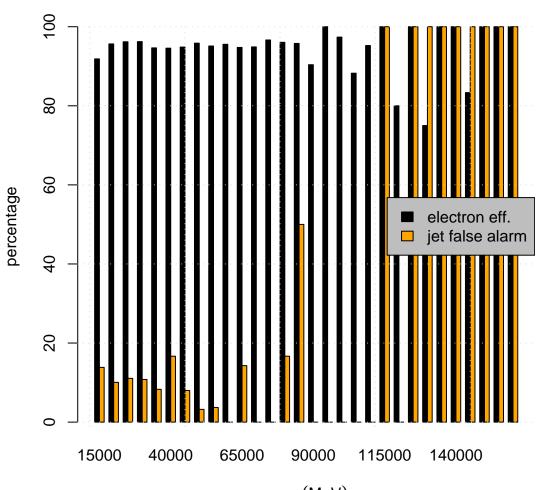


phi [Cut at 0.0015]

### SP product analysis for the test set

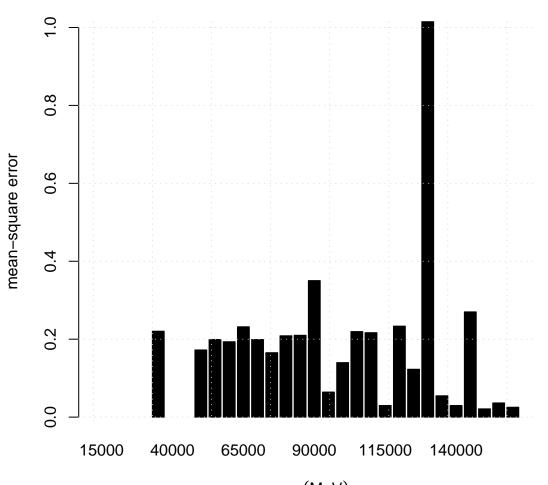


## Efficiency analysis for the test set



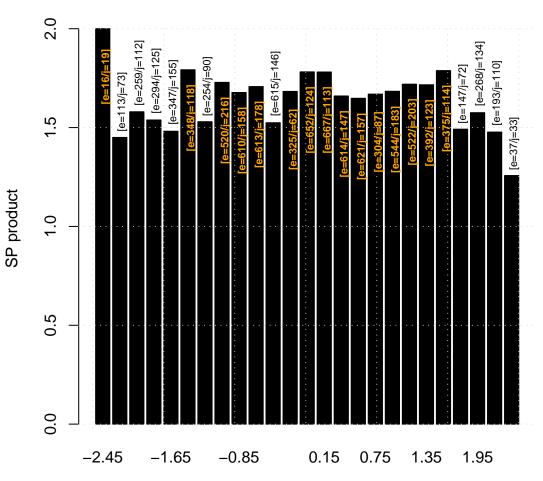
e.m.<sub>T</sub>(MeV) [Cut at 0.0015]

## MSE values analysis for the test set



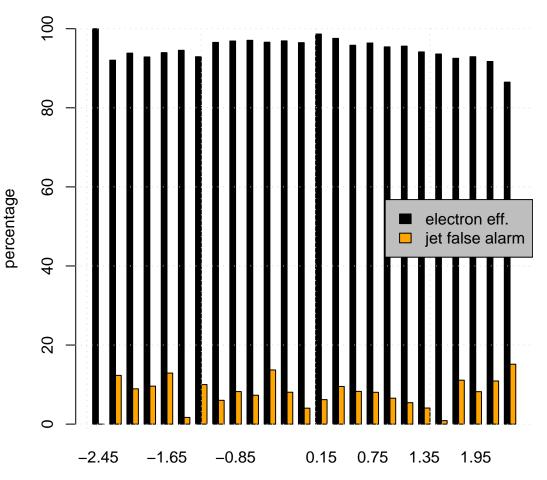
e.m.<sub>T</sub>(MeV) [Cut at 0.0015]

## SP product analysis for the train set



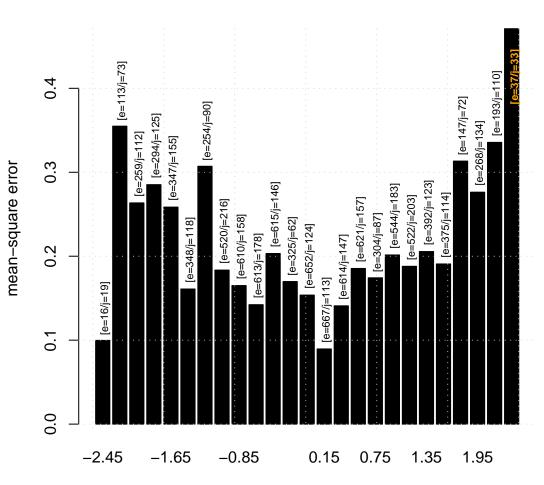
eta [Cut at 0.0015]

# Efficiency analysis for the train set



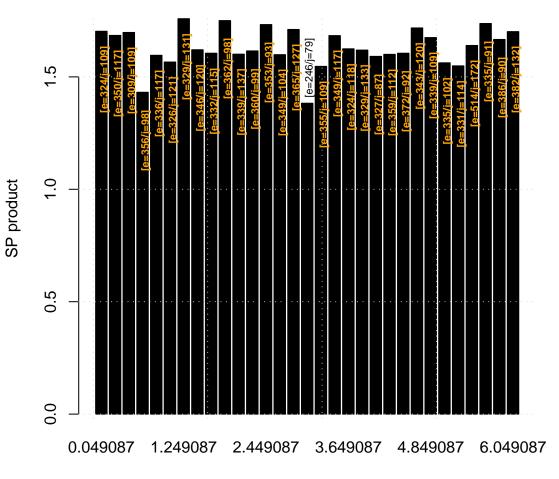
eta [Cut at 0.0015]

## MSE values analysis for the train set



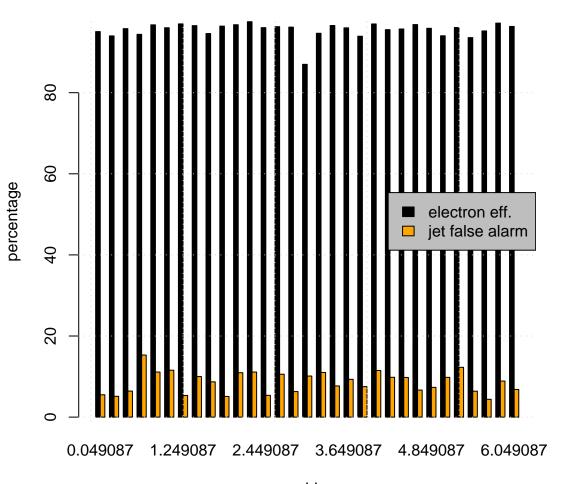
eta [Cut at 0.0015]

## SP product analysis for the train set



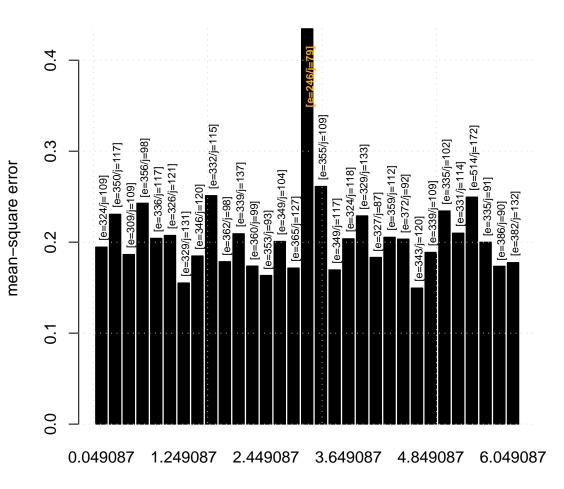
phi [Cut at 0.0015]

## Efficiency analysis for the train set



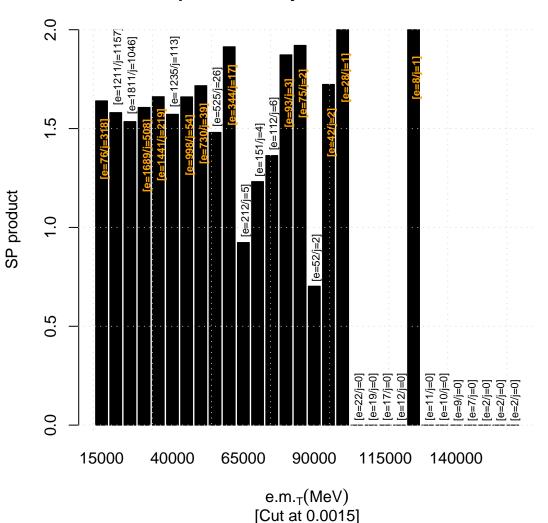
phi [Cut at 0.0015]

## MSE values analysis for the train set

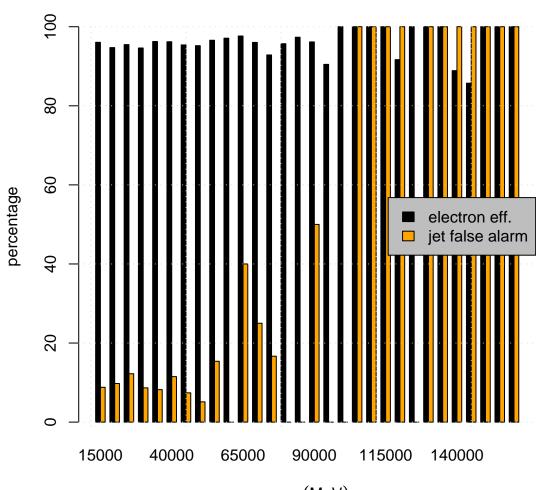


phi [Cut at 0.0015]

### SP product analysis for the train set

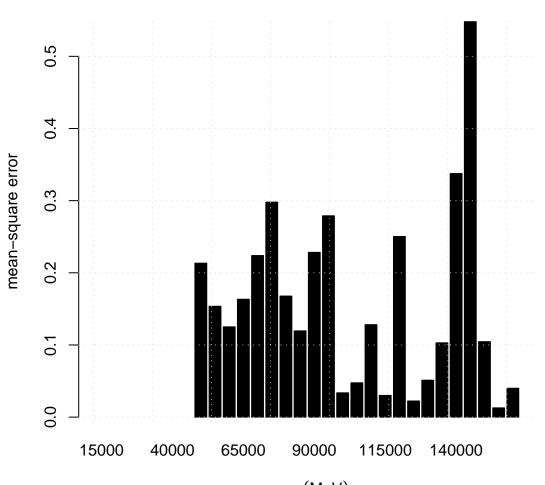


## Efficiency analysis for the train set



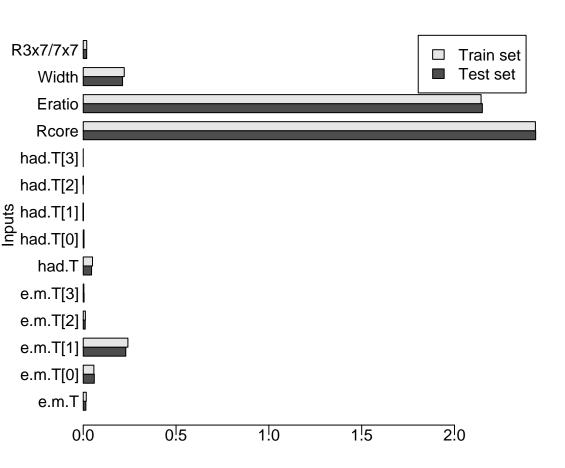
e.m.<sub>T</sub>(MeV) [Cut at 0.0015]

## MSE values analysis for the train set



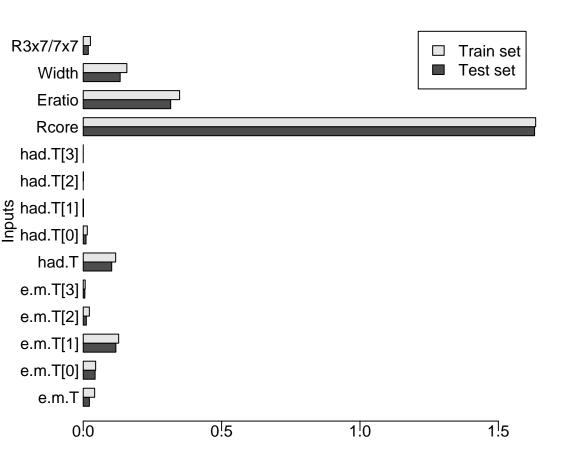
e.m.<sub>T</sub>(MeV) [Cut at 0.0015]

## Relevance analysis (MSE)



Relevance estimative

## Relevance analysis (SP product)



Relevance estimative