

Weekly Report

CMS DQM-ML4DC

Patomporn (Jab)

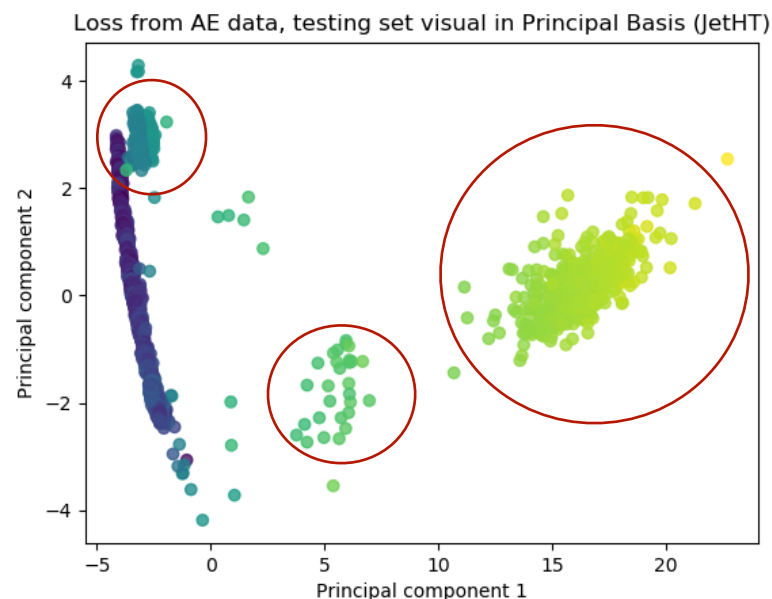
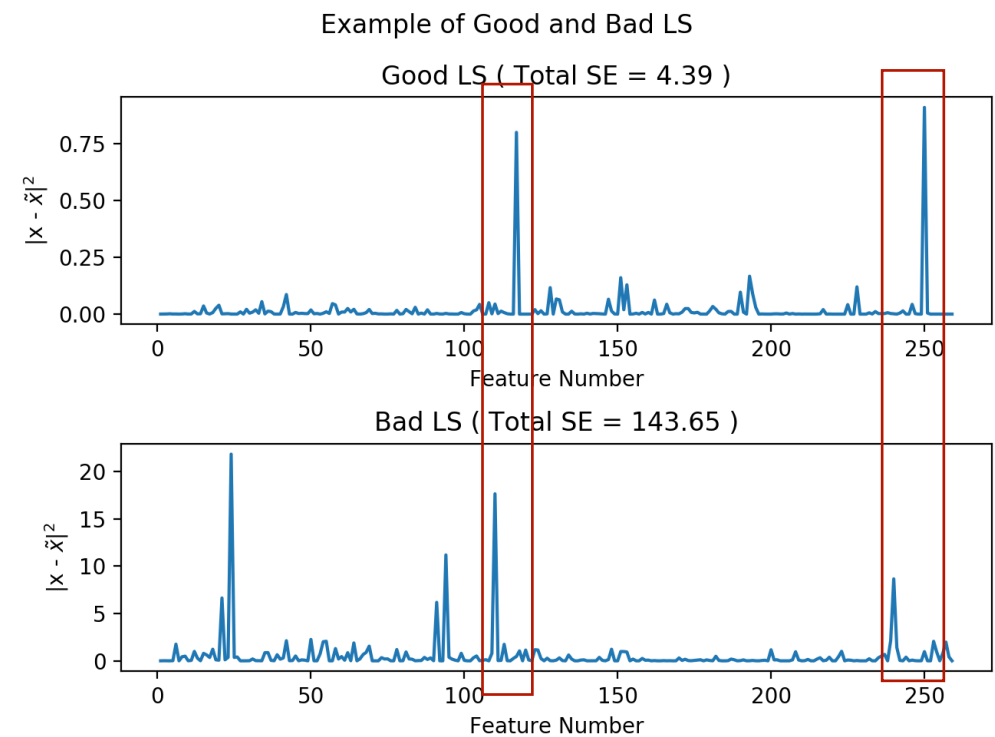
5 August 2019

Outline

- Feedback after giving a talk in CMG group
- PromptReco 2018
 - Various bad LS from DC Experts
 - Plot of principal components
- Future work

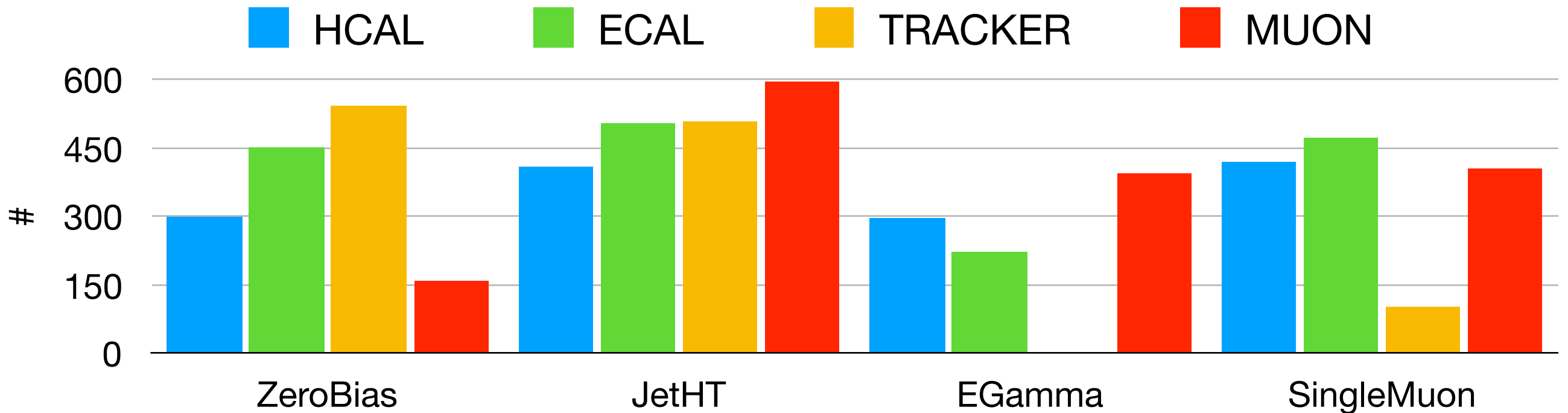
Feedback

- People spot these two peaks
 - When I zoom in, it's not the same peak
- Some mention that have a look at the square error plot in various bad LS cluster might be useful



PromptReco 2018

Various bad LS from DC Experts

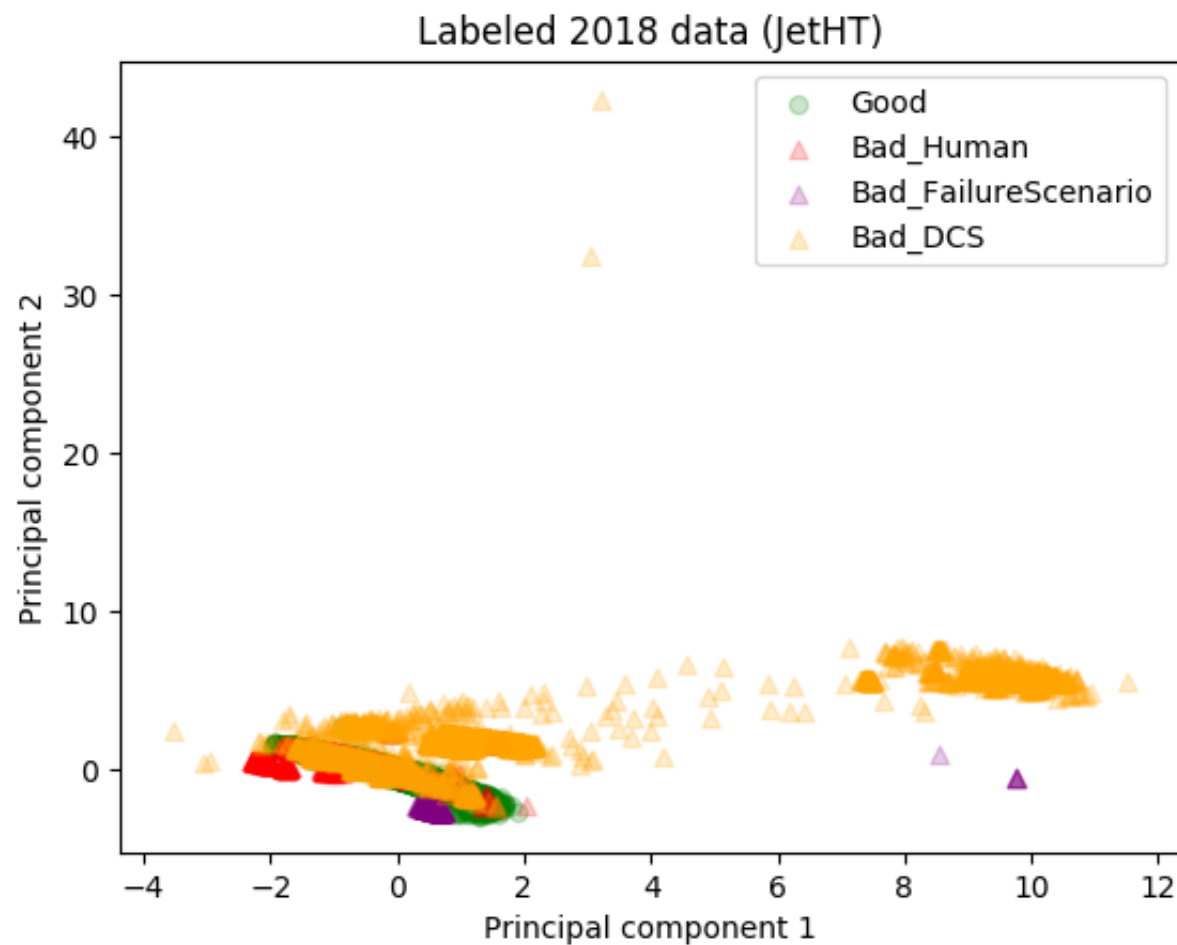


Sub-detector\PD	ZeroBias	JetHT	EGamma	SingleMuon
HCAL	23%	22%	32%	31%
ECAL	36%	27%	24%	35%
TRACKER	43%	27%	0.3%	8%
MUON	12%	32%	43%	30%
*Overlap	TRUE	TRUE	-	TRUE

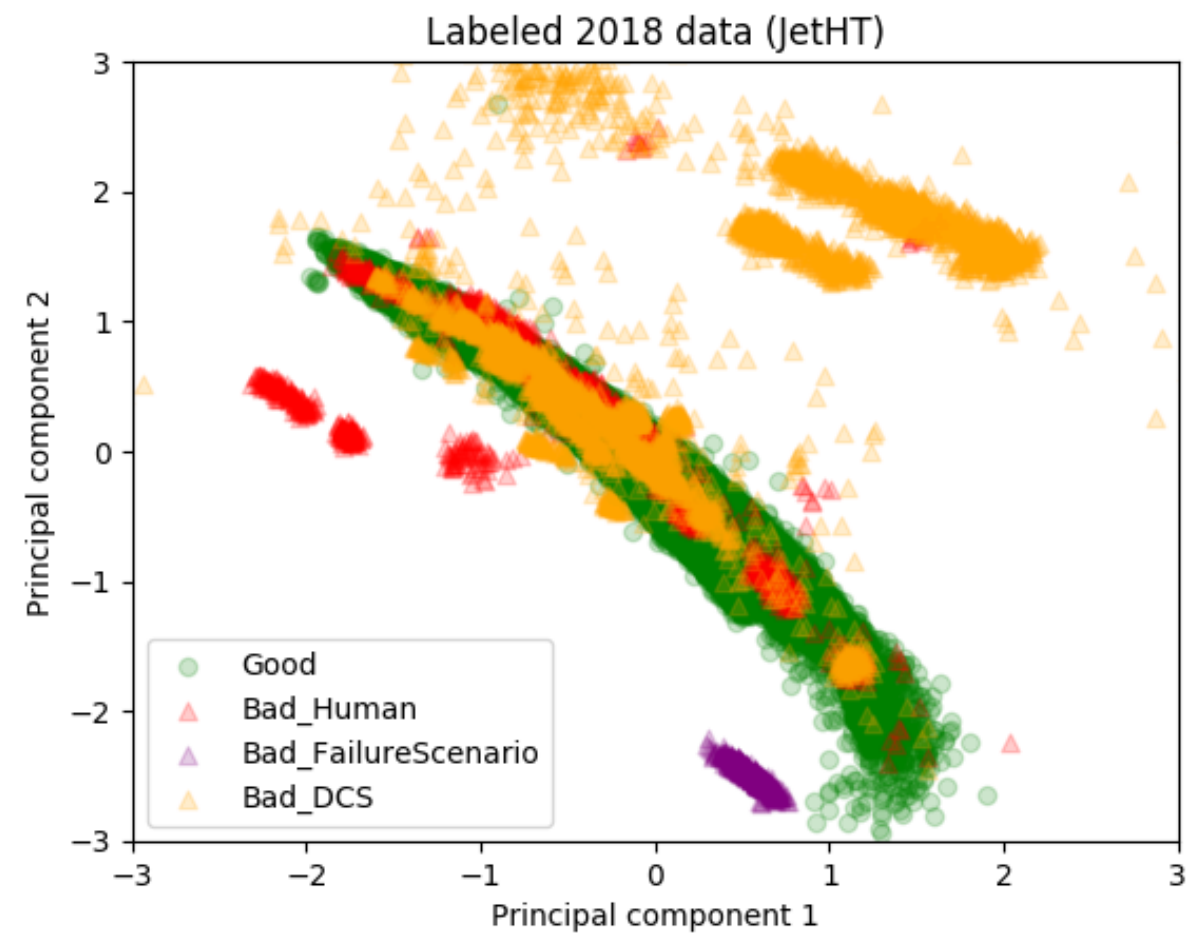
* Compute form “100 - all” if it negative then it would has an overlap of malfunction

Principal Component (JetHT)

Full plot



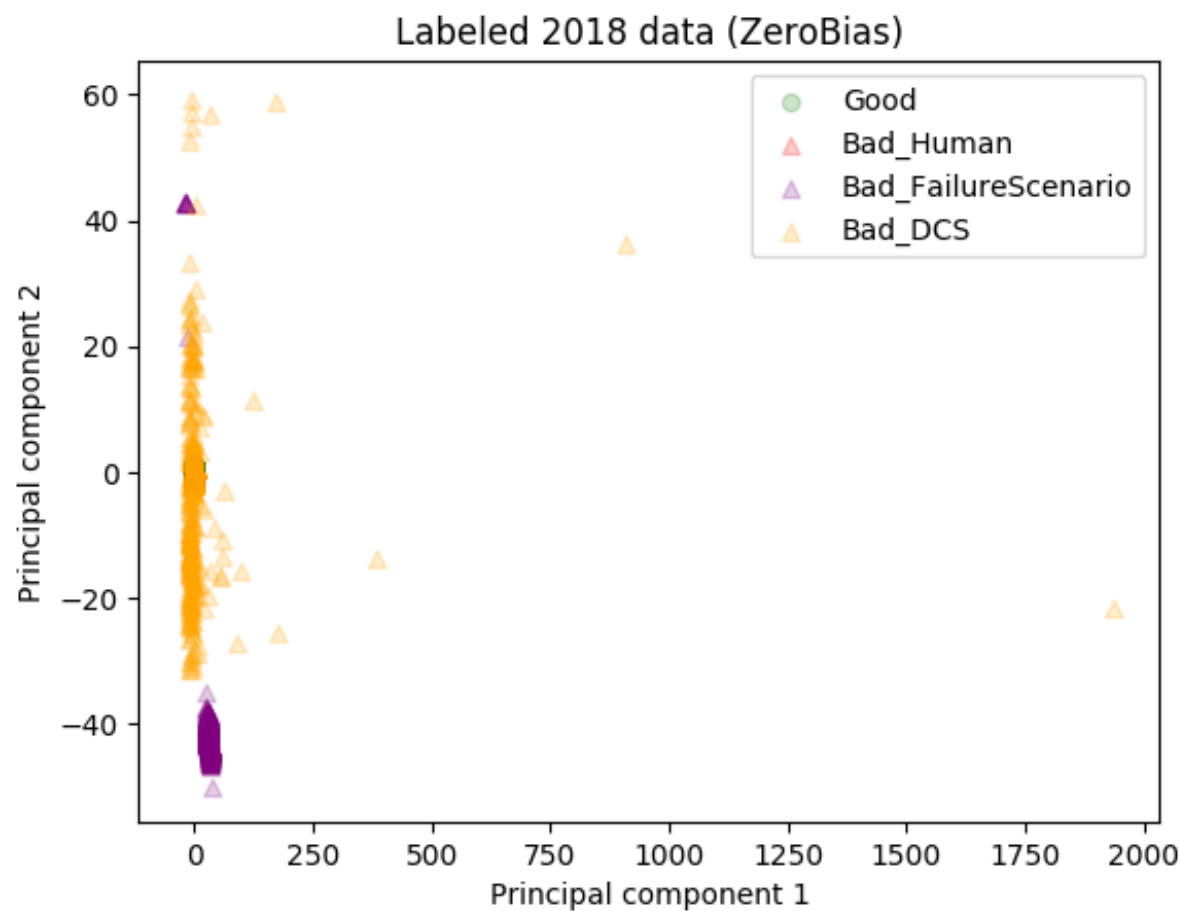
Zoom in



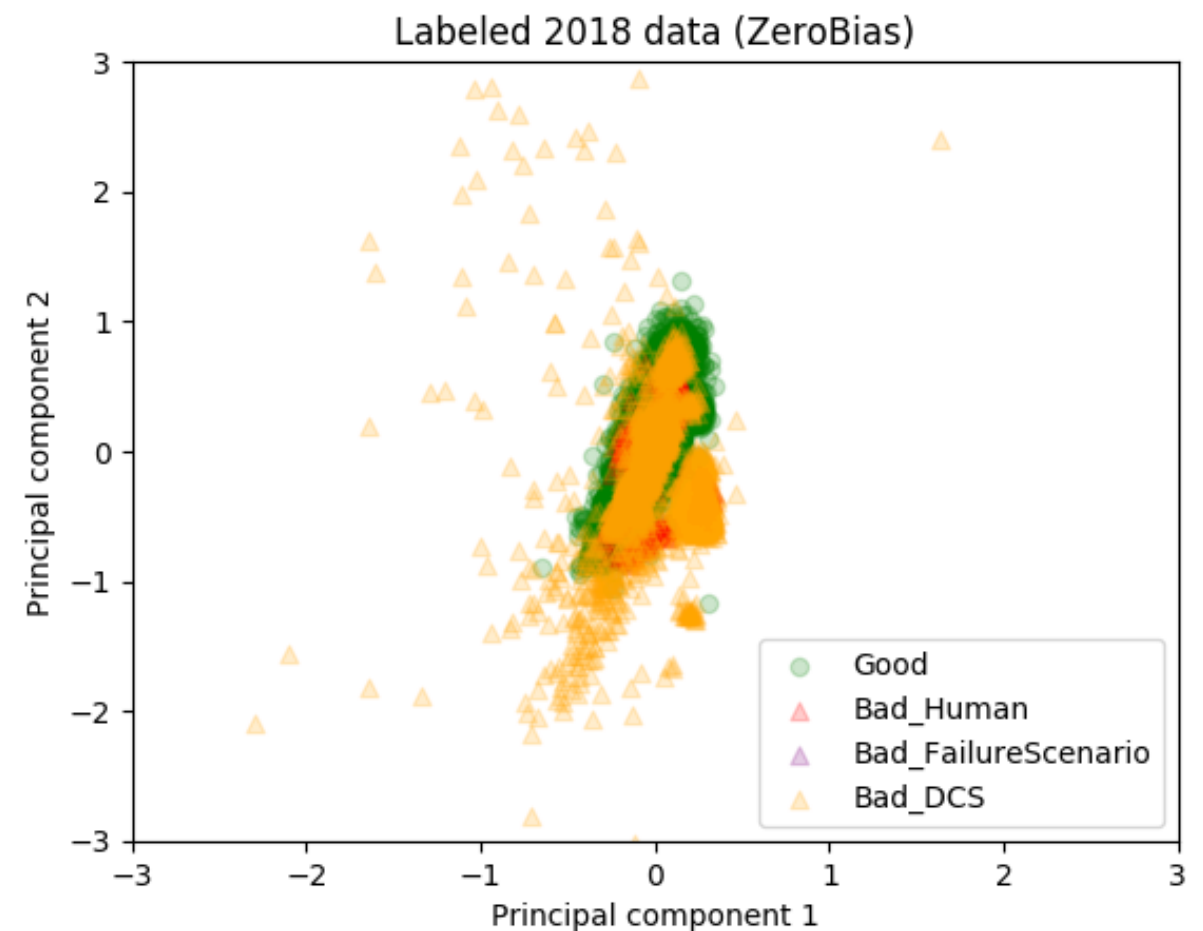
Please note that matrix transform of this plot exclude FailureScenario

Principal Component (ZeroBias)

Full plot



Zoom in



Please note that matrix transform of this plot exclude FailureScenario

Future work

- Just got occupancy map per LS from
["/ZeroBias/Run2017F-29Jun2019_UL2017validation-v1/DQMIO"](#)
- Extract and pull label from RR's API
- Do something with it..