EDA

S & B Density

S & B Histogram
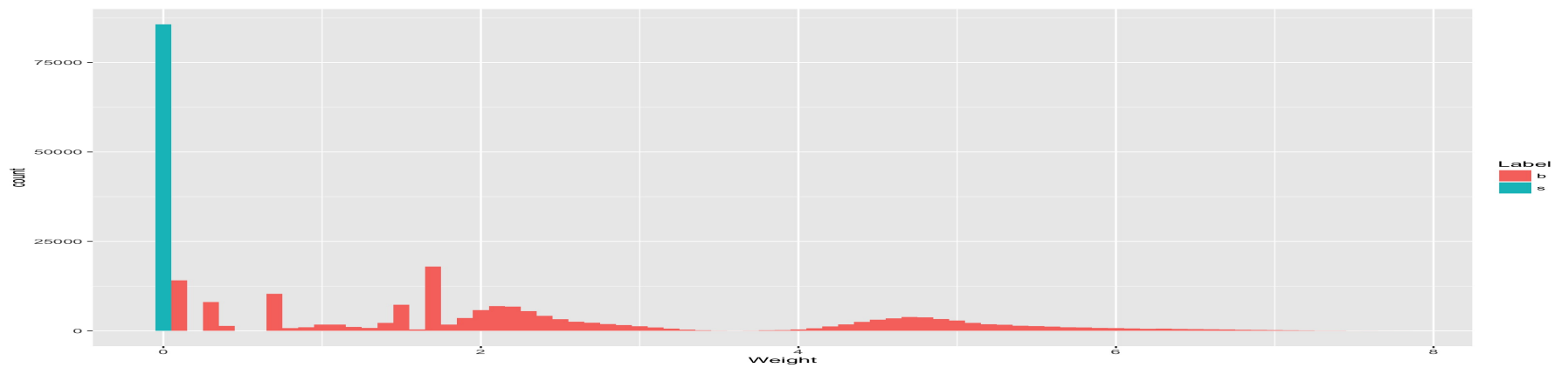
First 15 Variables Density

First 15 Variable Histogram

Last 15 Variables Density

Last 15 Variables Histogram

Correlation

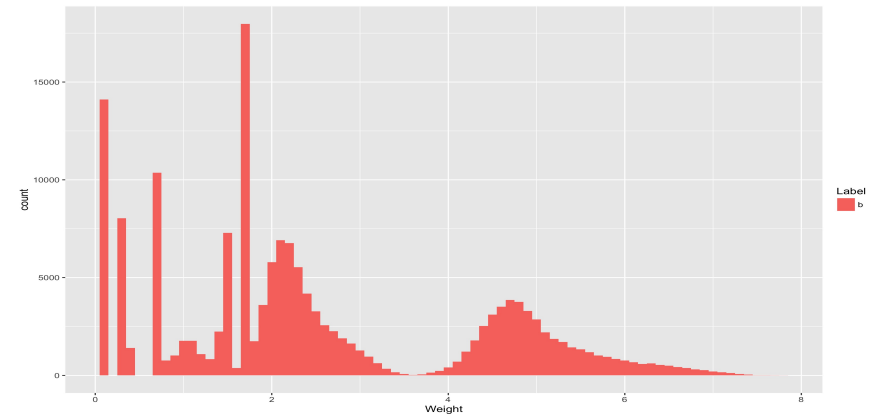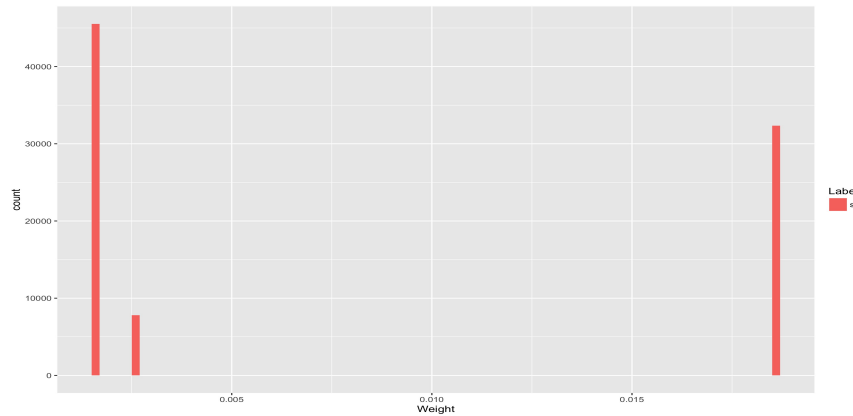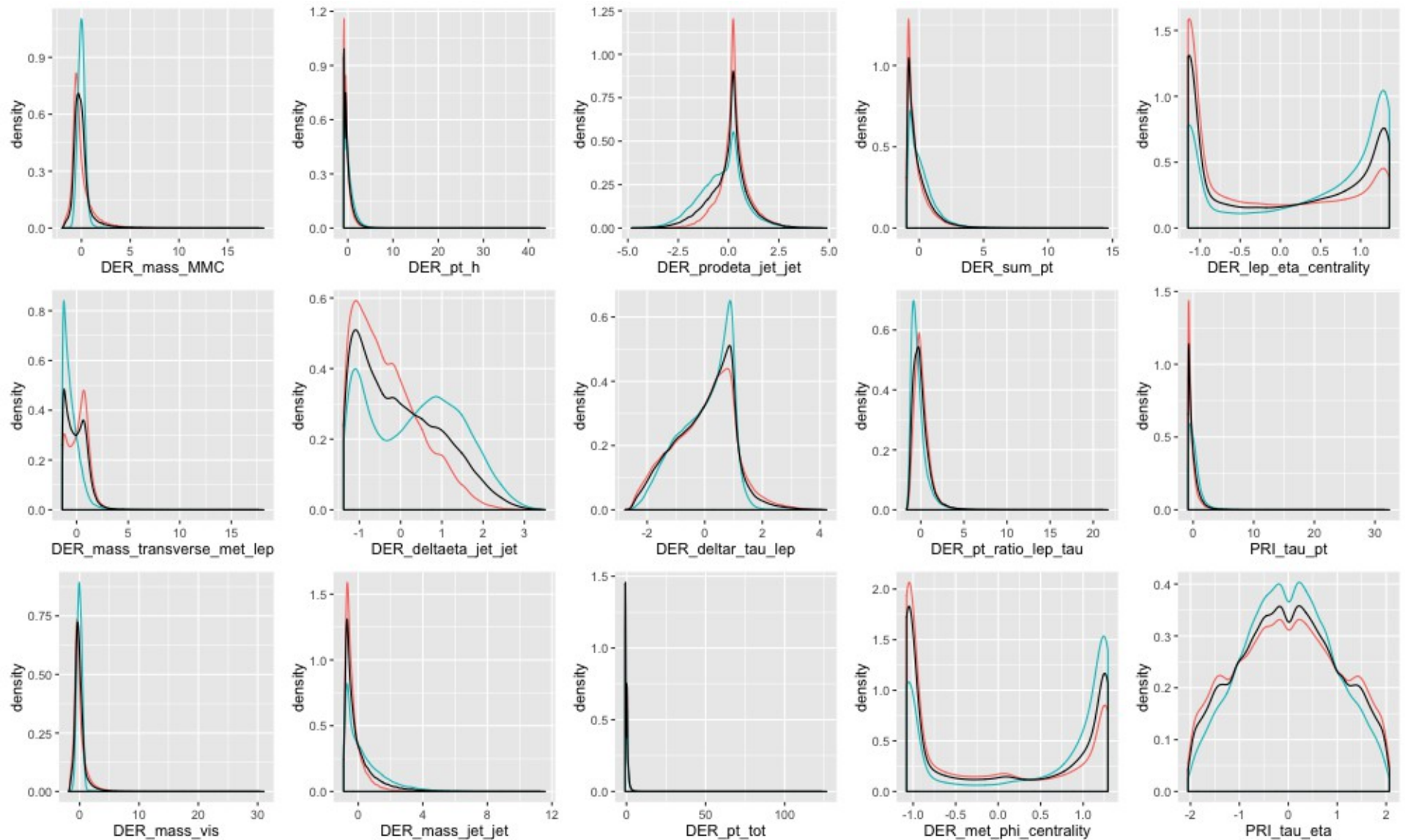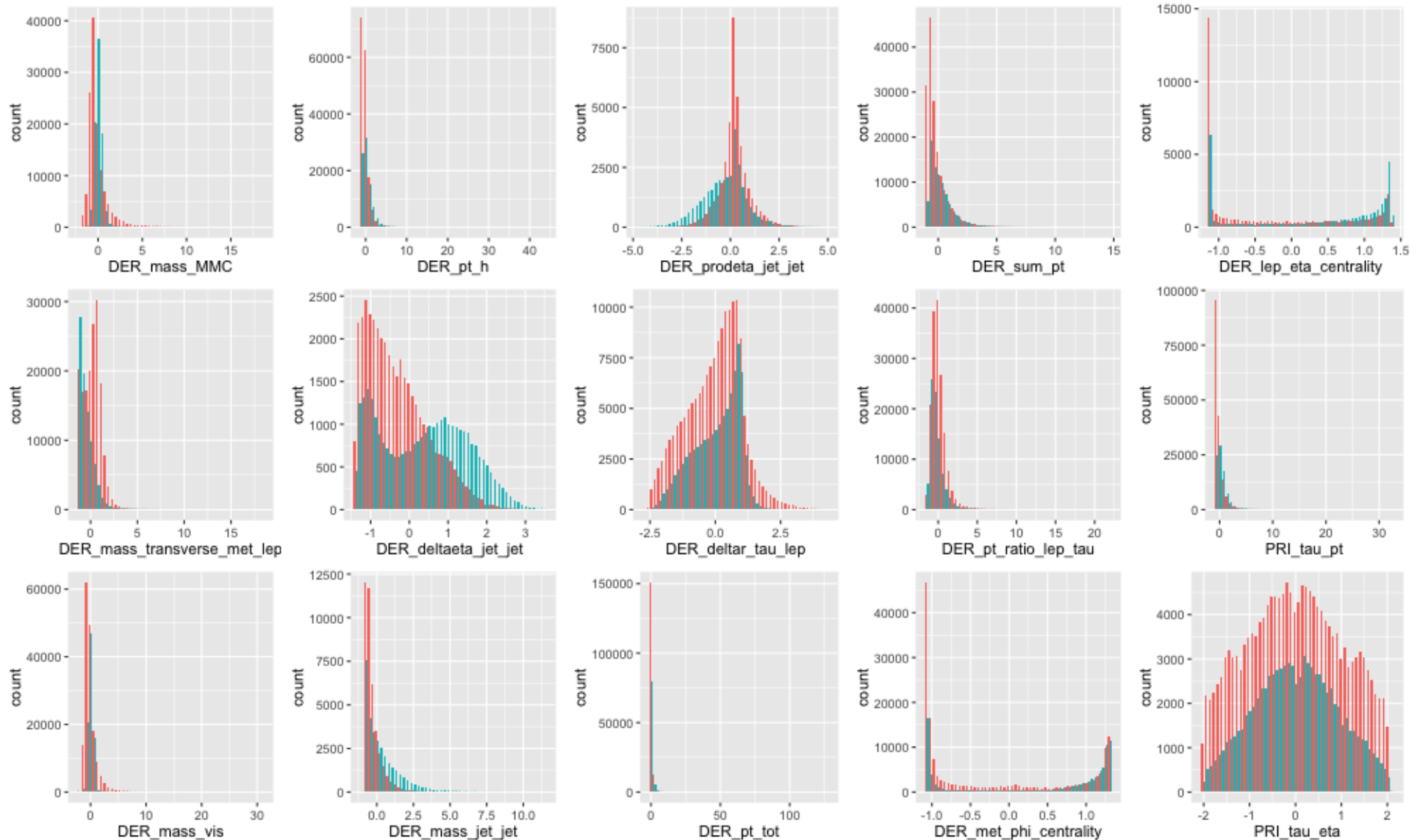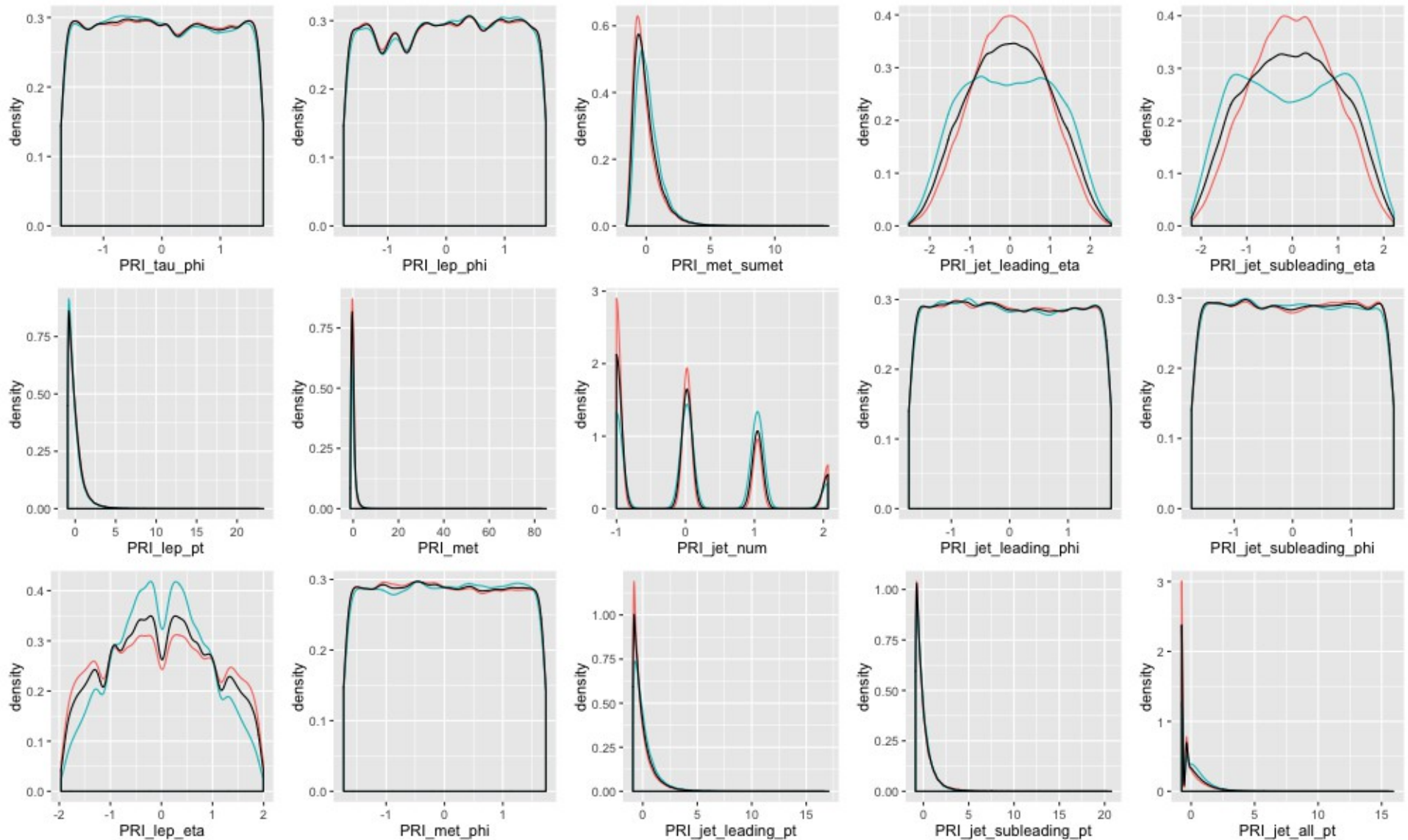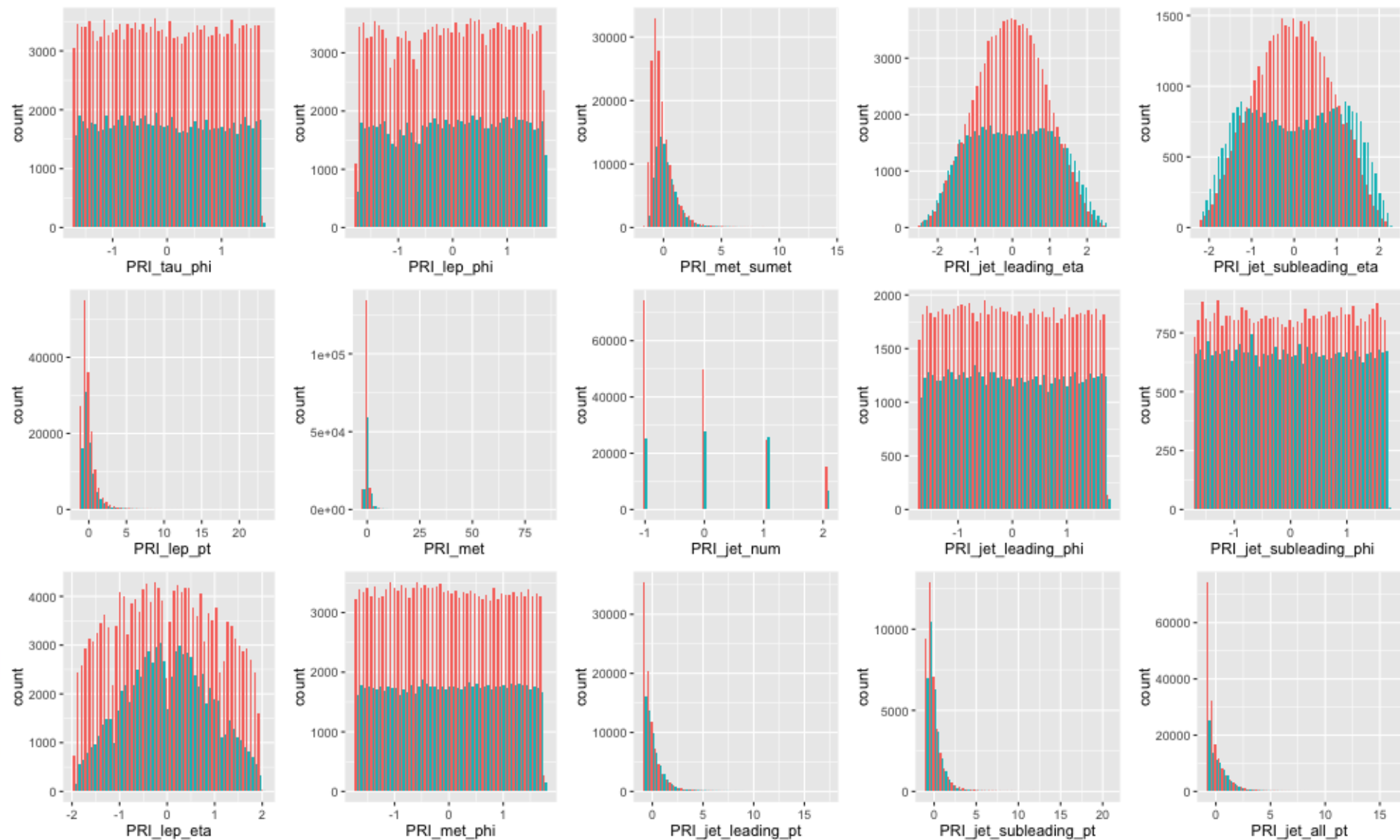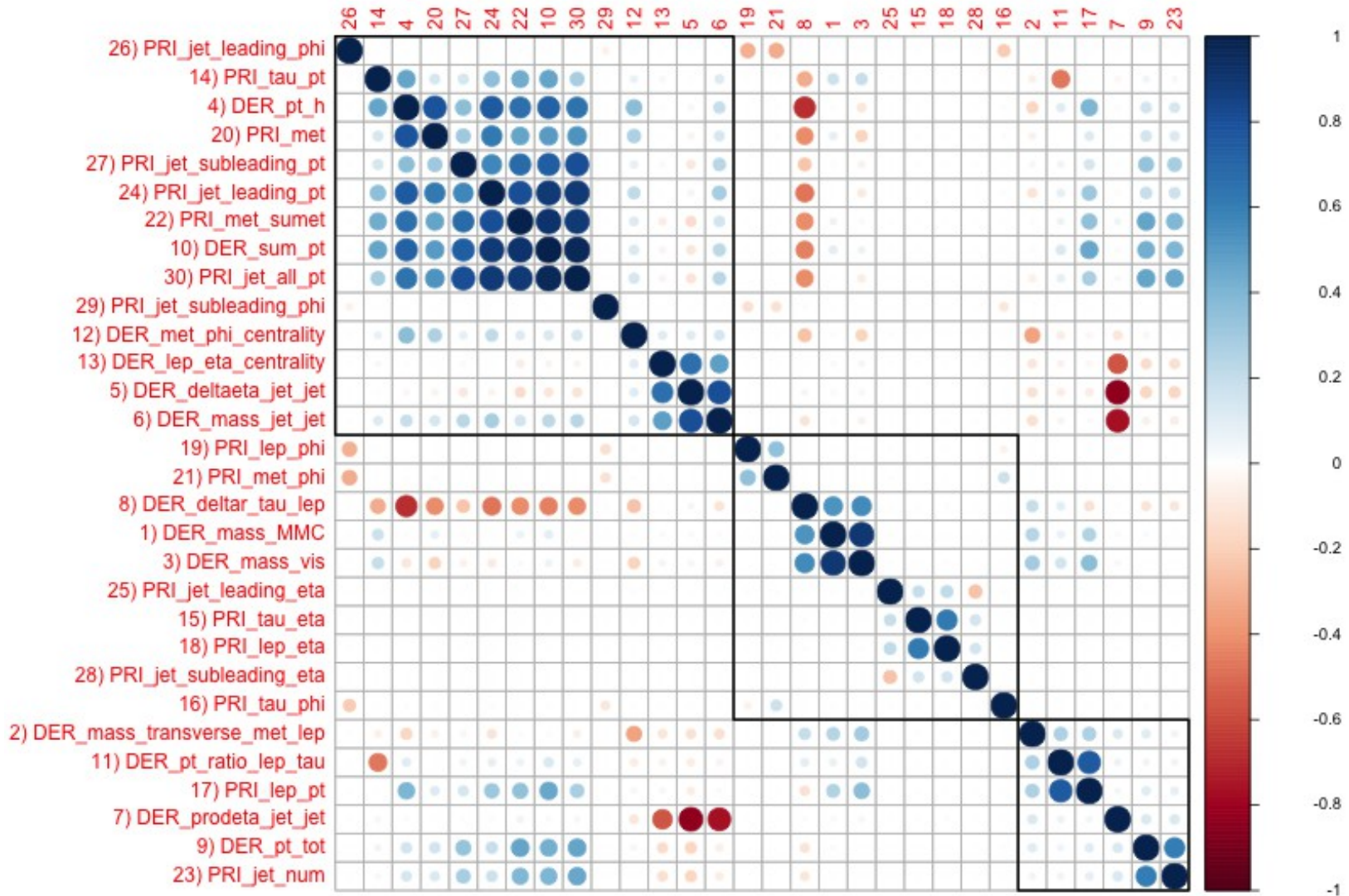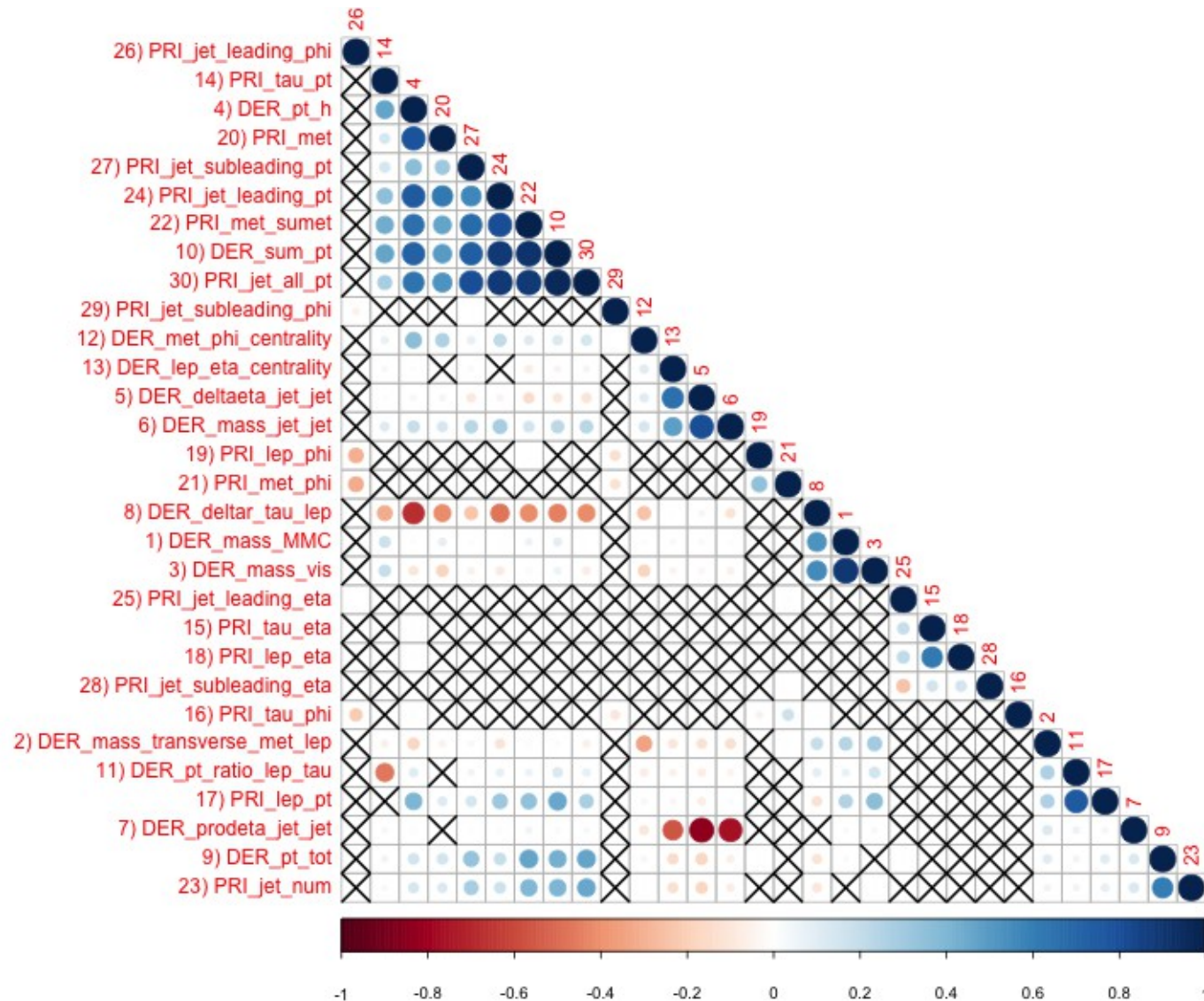# Significant Correlation
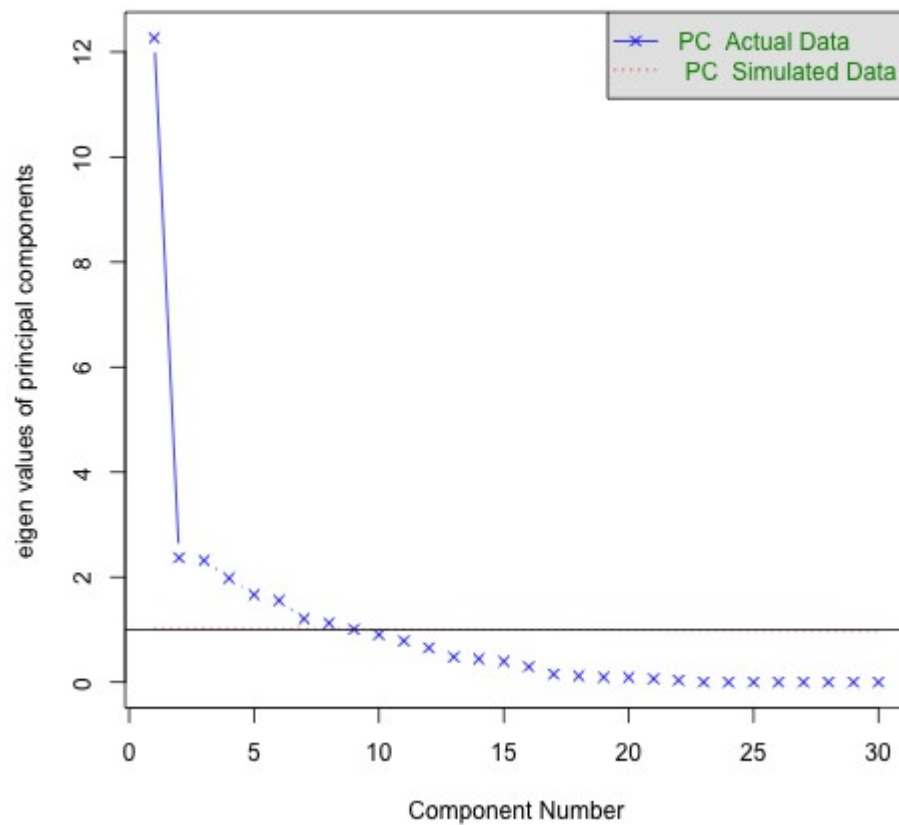
PCA
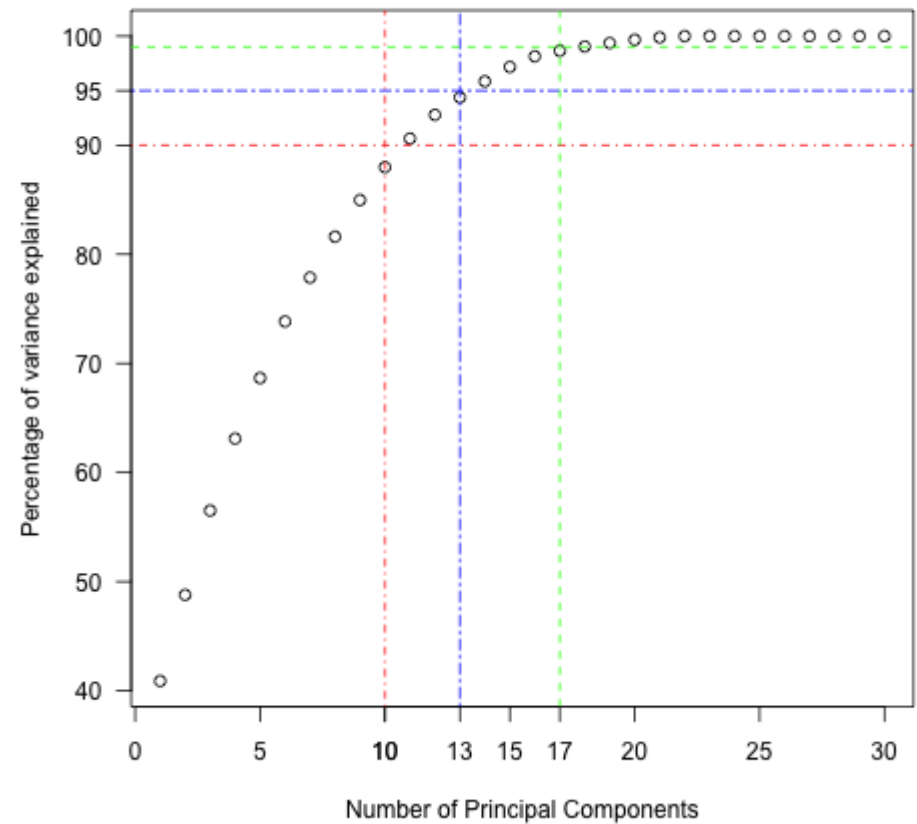
PCA Vectors
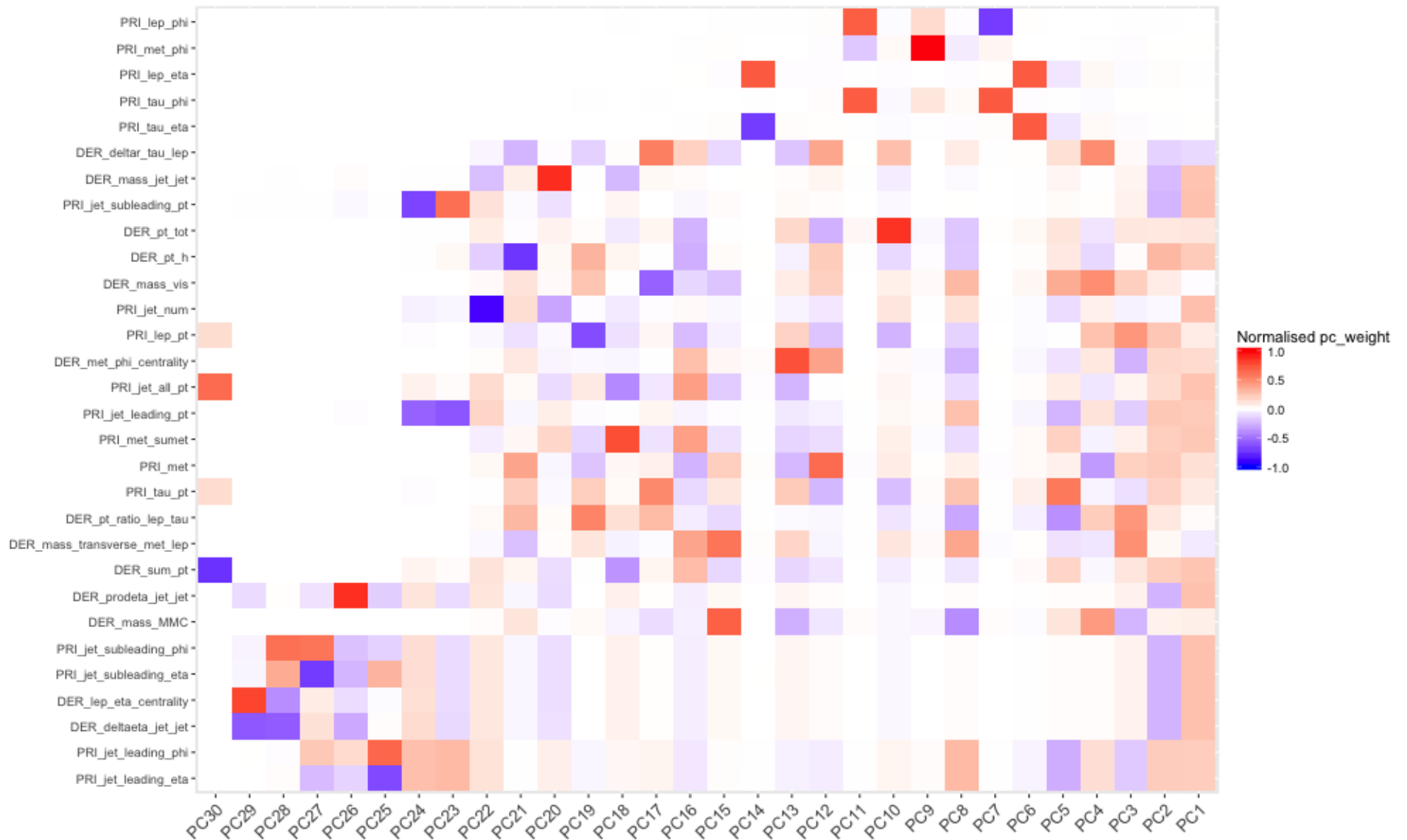
PCA components density
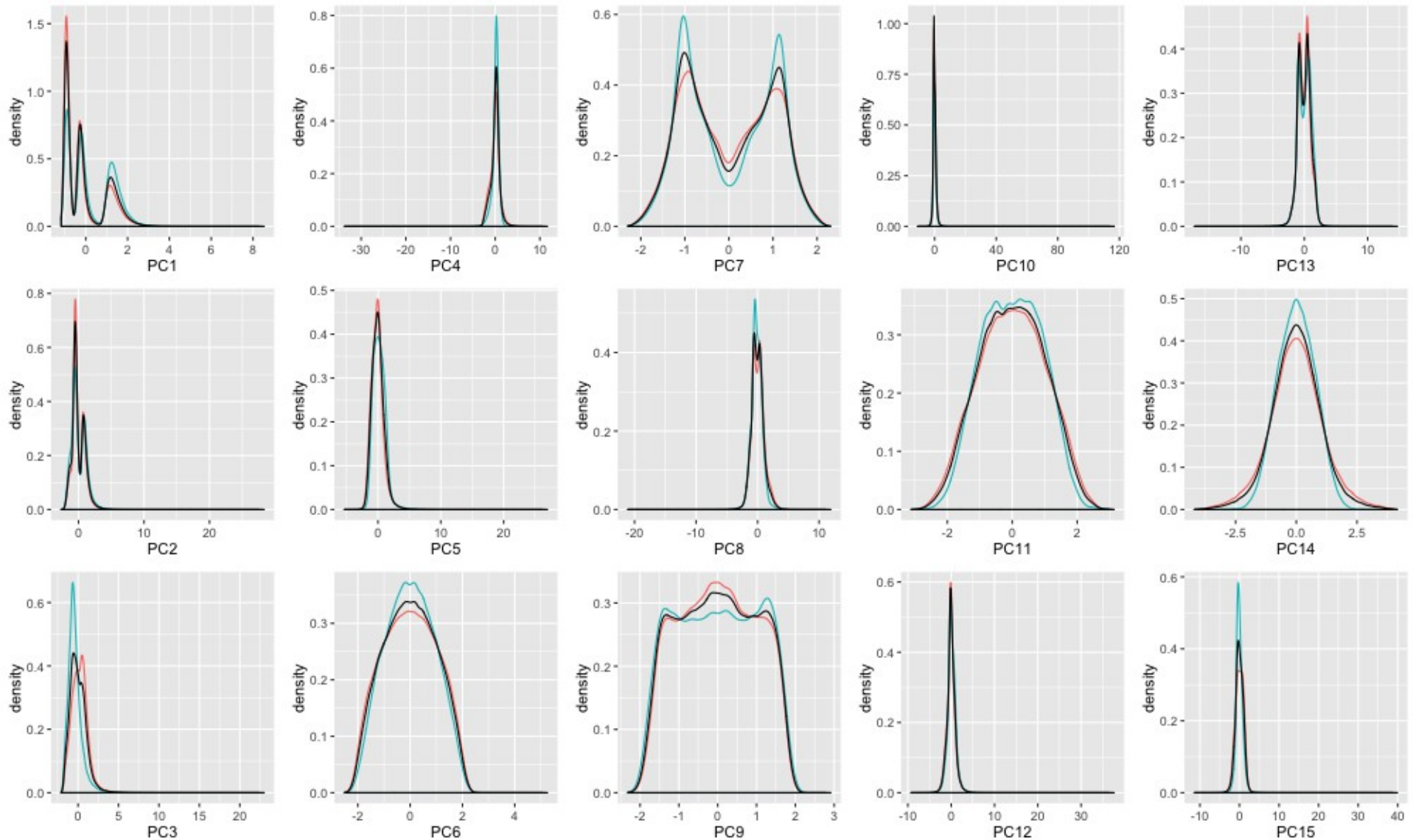
Undefined Variables

- 1   15.2456   1   DER_mass_MMC
- 2   39.9652   24   PRI_jet_leading_pt
- 3   39.9652   25   PRI_jet_leading_eta
- 4   39.9652   26   PRI_jet_leading_phi
- 5   70.9828   5   DER_deltaeta_jet_jet
- 6   70.9828   6   DER_mass_jet_jet
- 7   70.9828   7   DER_prodeta_jet_jet
- 8   70.9828   13 DER_lep_eta_centrality
- 9   70.9828   27 PRI_jet_subleading_pt
- 10   70.9828   28 PRI_jet_subleading_eta
- 11   70.9828   29 PRI_jet_subleading_phi

Undefined Variables by Jet No.

- ## All Jets (0,1,2,3)

  1   15.2456   1   DER_mass_MMC

- ## No Jets(0)

  2   39.9652   24   PRI_jet_leading_pt

  3   39.9652   25   PRI_jet_leading_eta

  4   39.9652   26   PRI_jet_leading_phi

- ## No Jet and 1 Jet (0,1)

  5   70.9828   5   DER_deltaeta_jet_jet

  6   70.9828   6   DER_mass_jet_jet

  7   70.9828   7   DER_prodeta_jet_jet

  8   70.9828   13 DER_lep_eta_centrality

  9   70.9828   27 PRI_jet_subleading_pt

  10 70.9828   28 PRI_jet_subleading_eta

  11 70.9828   29 PRI_jet_subleading_phi

Ideas

- Remove all Derived variables (13) + Phi Variables (5) and use SVM and Neural Networks to find structures

- Use jet number tag to remove Undefined Variables