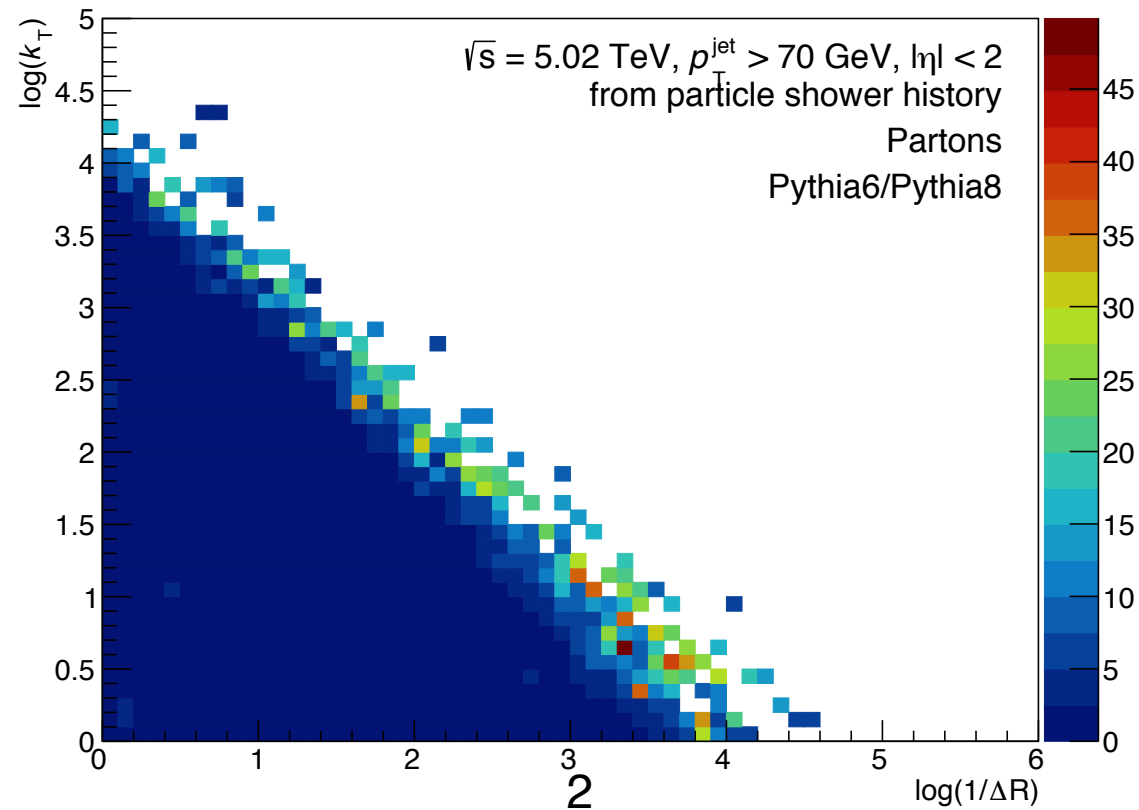
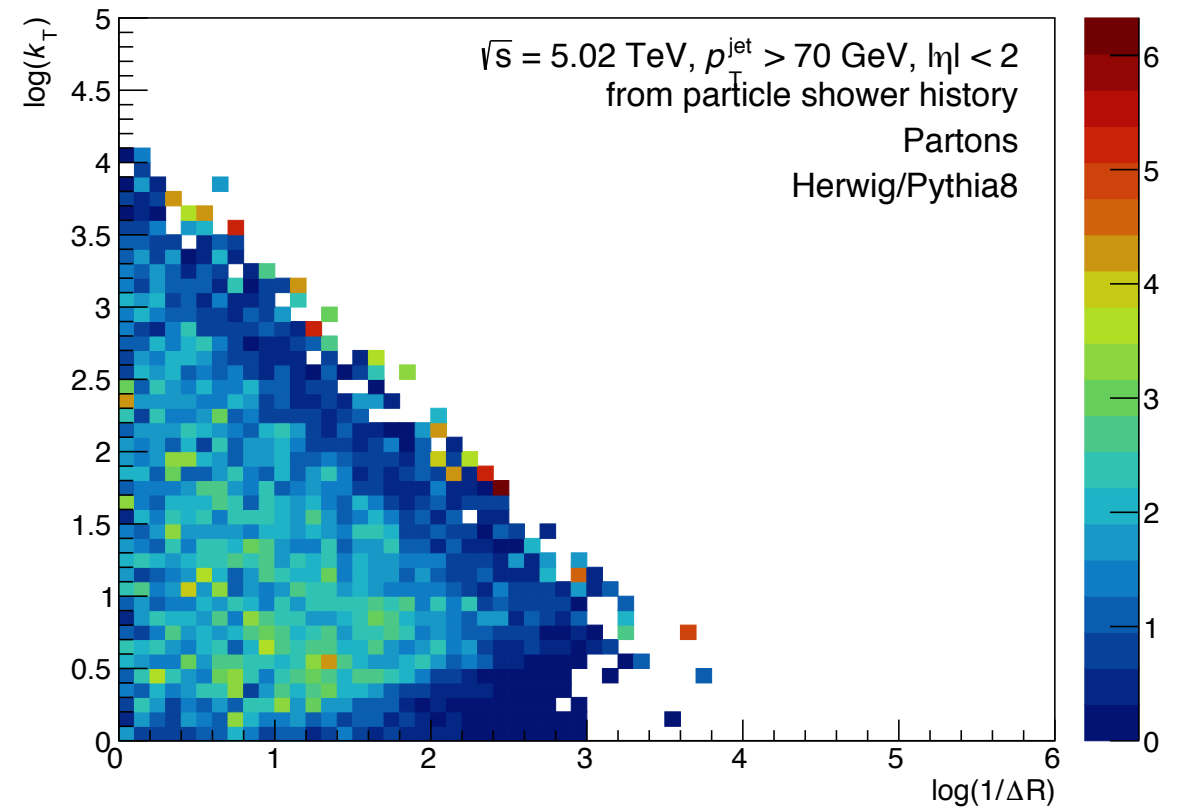
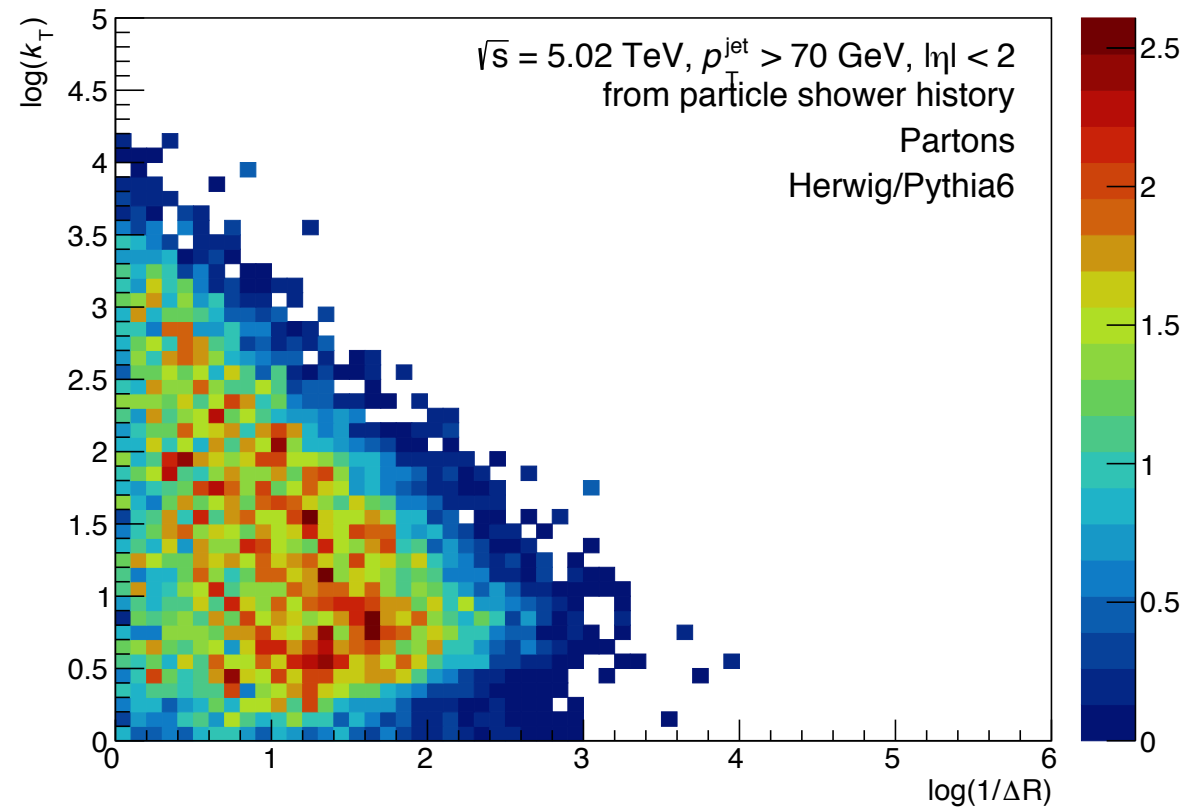


# EMMI Workshop: MC comparisons

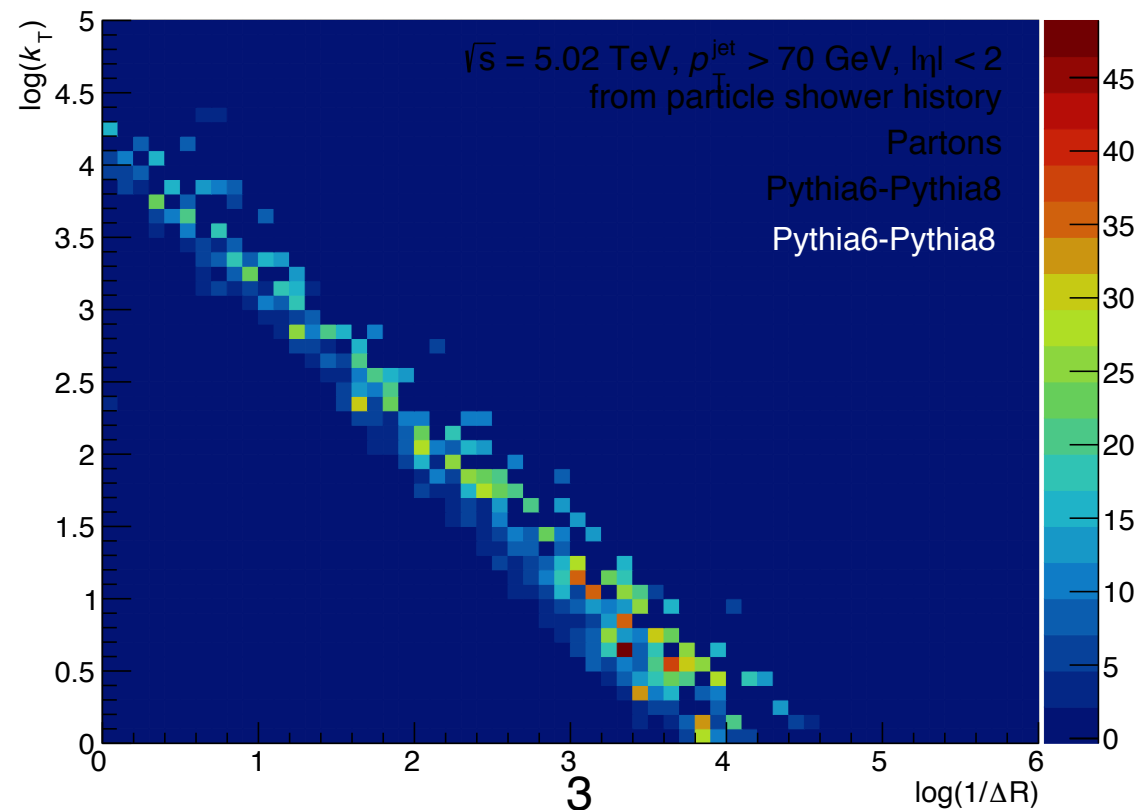
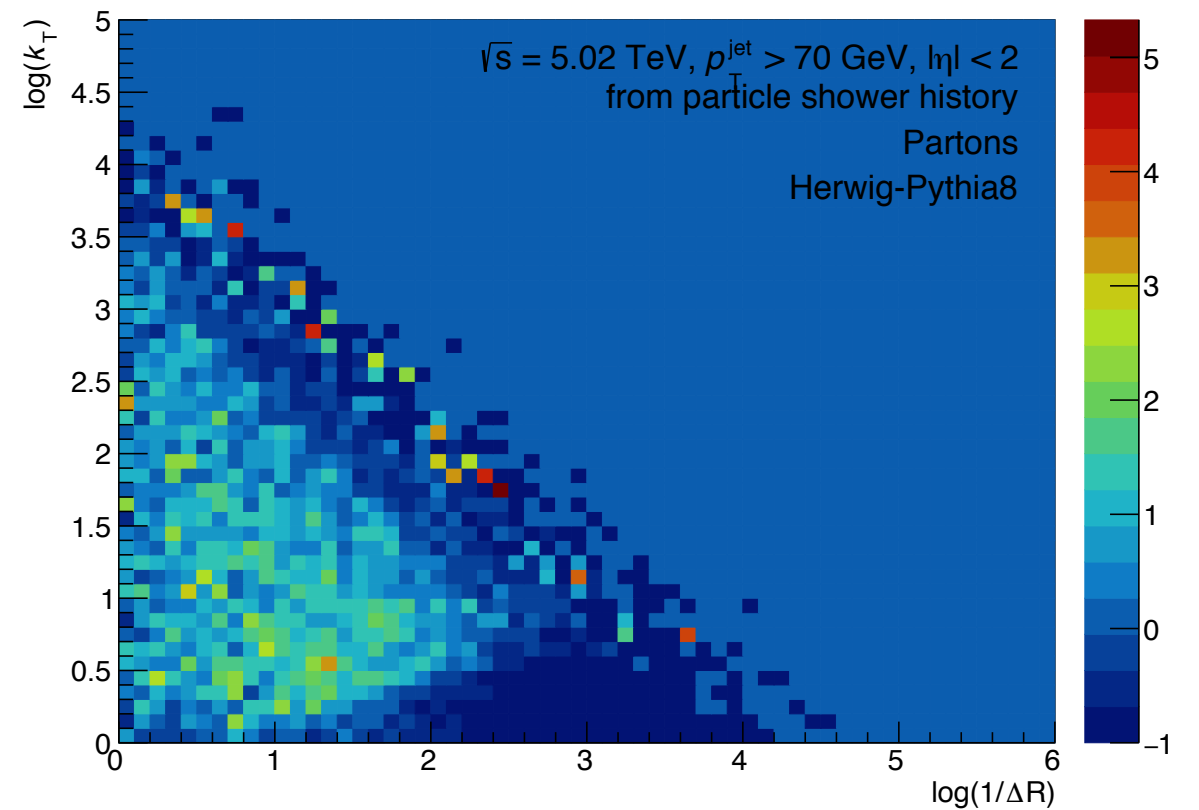
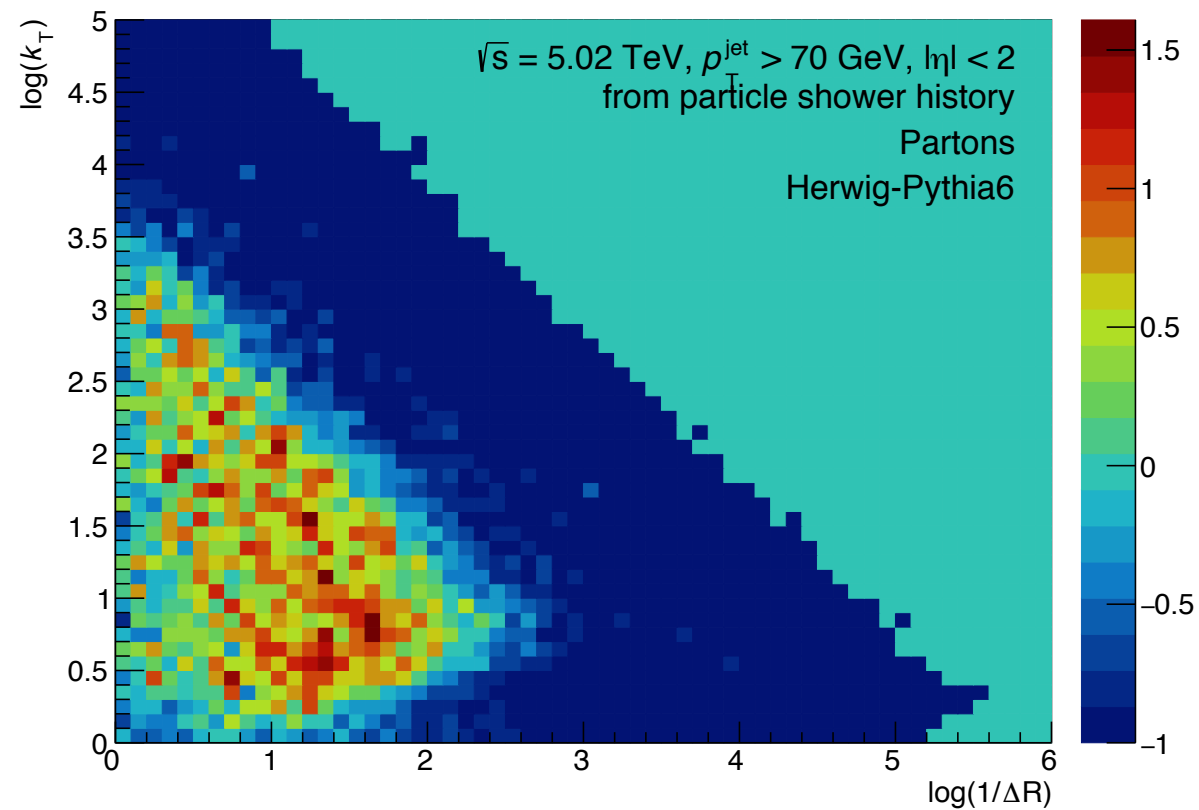
August 15th, 2019

Laura Havener, Liliana Apolinario, and Raghav Kunnawalkam Elayavalli

# LHC particle history ratios

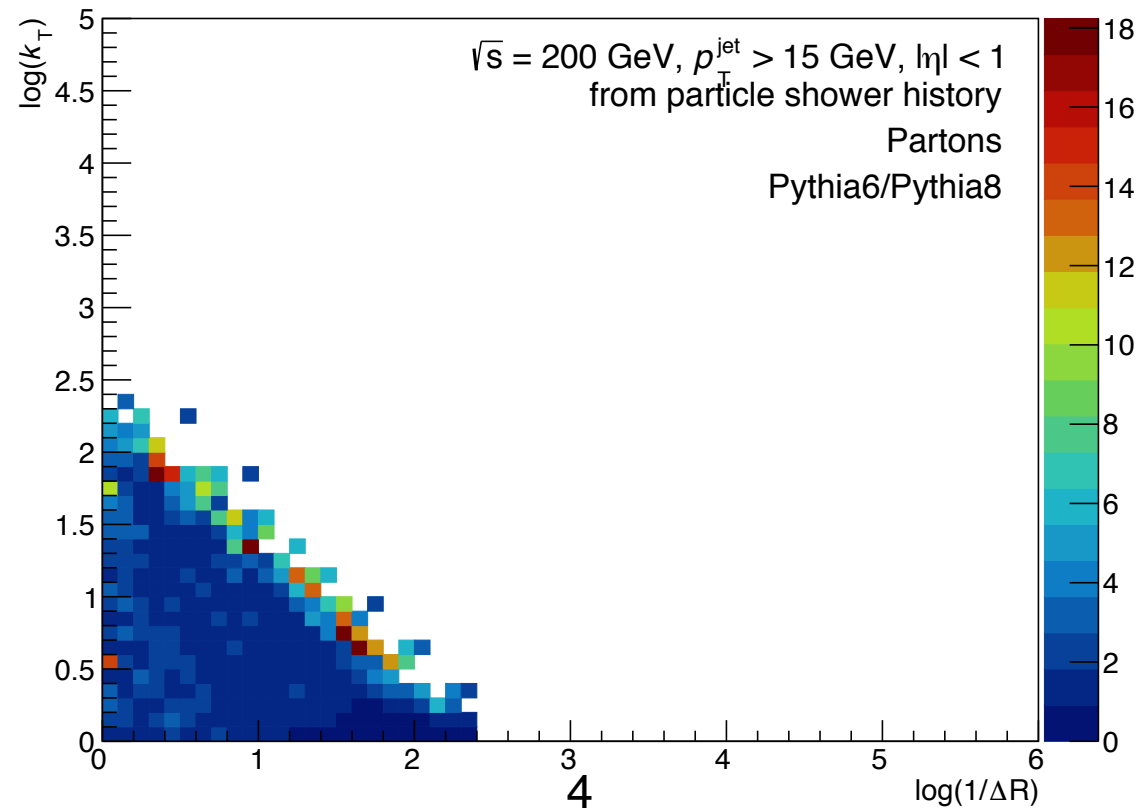
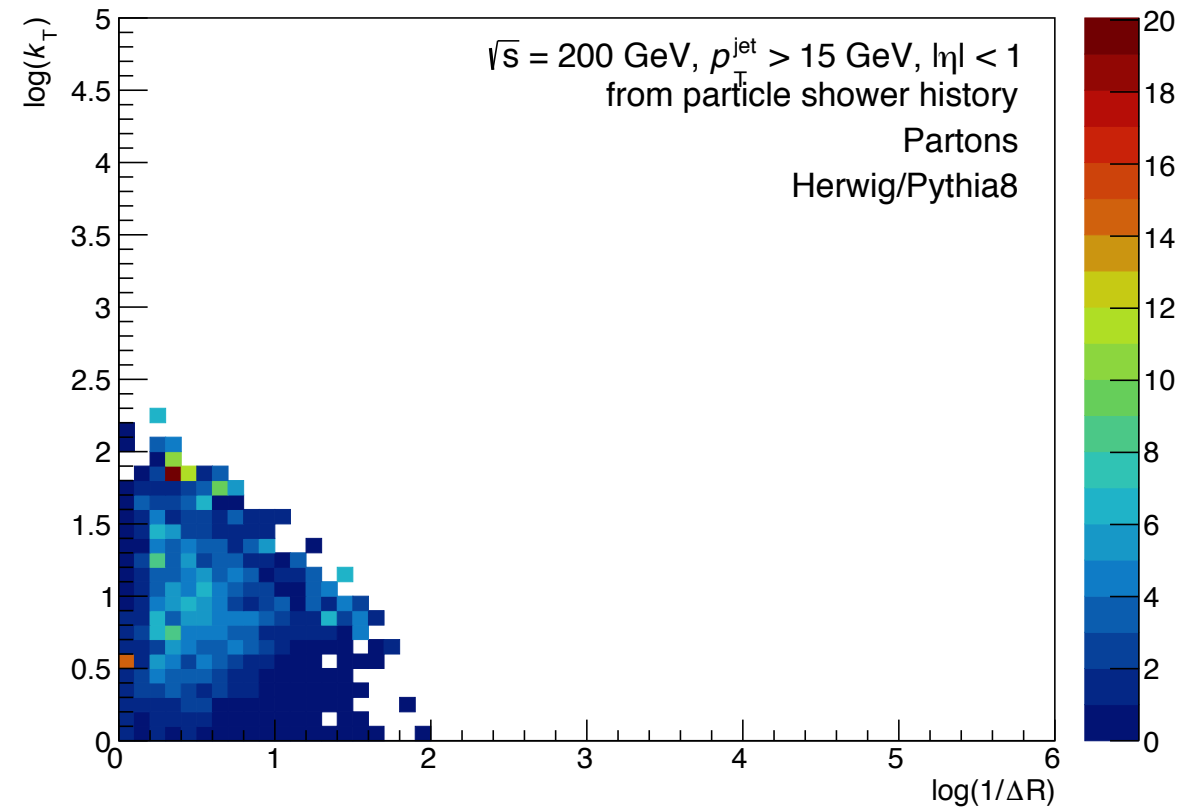
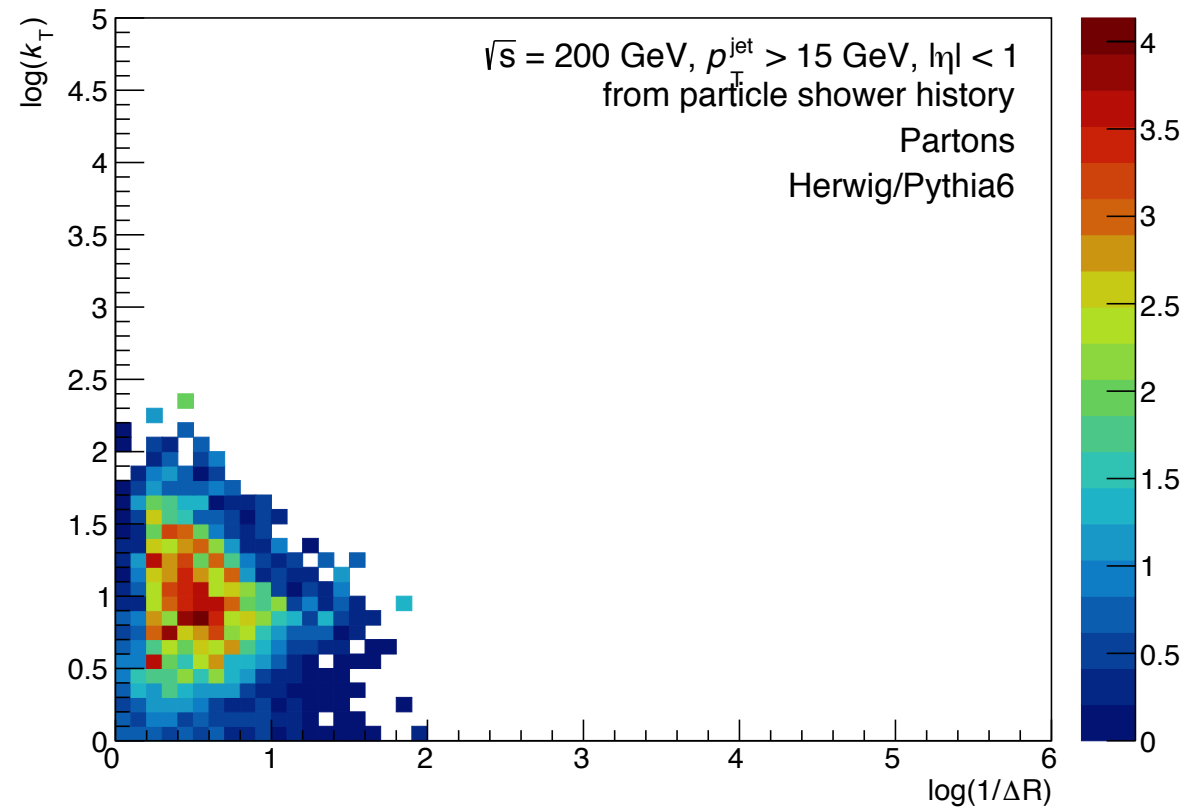


# LHC particle history deltas

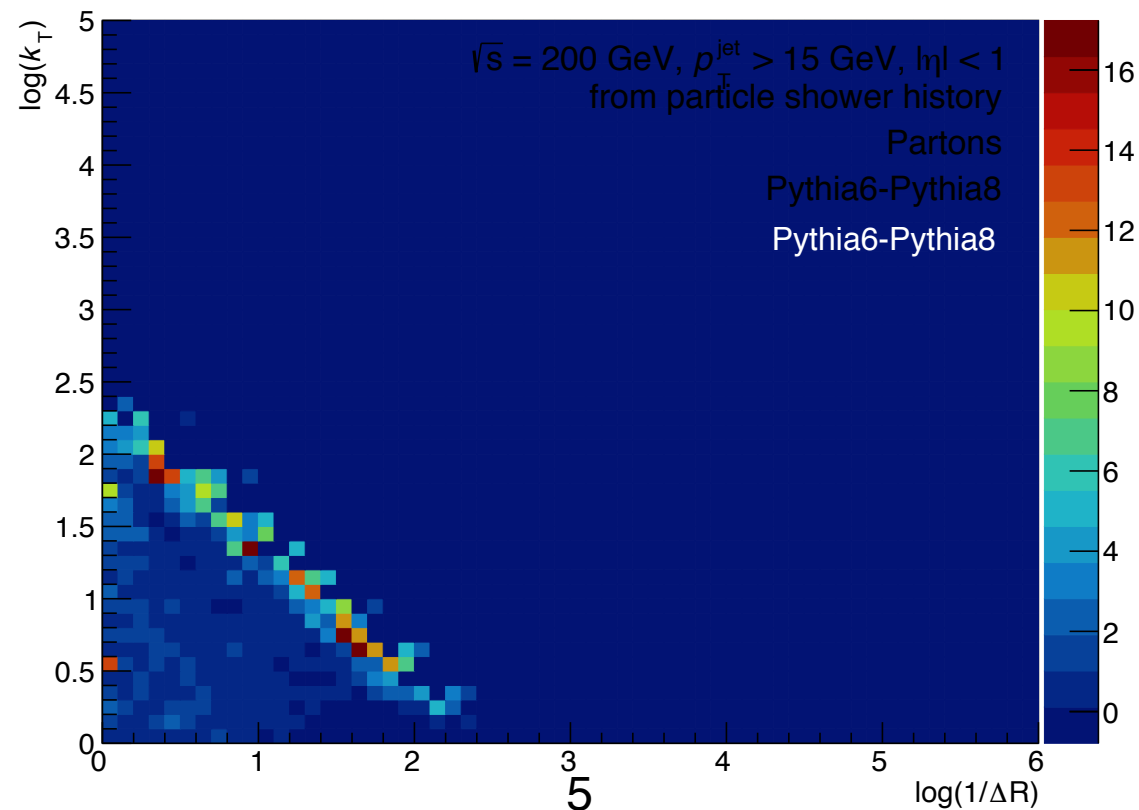
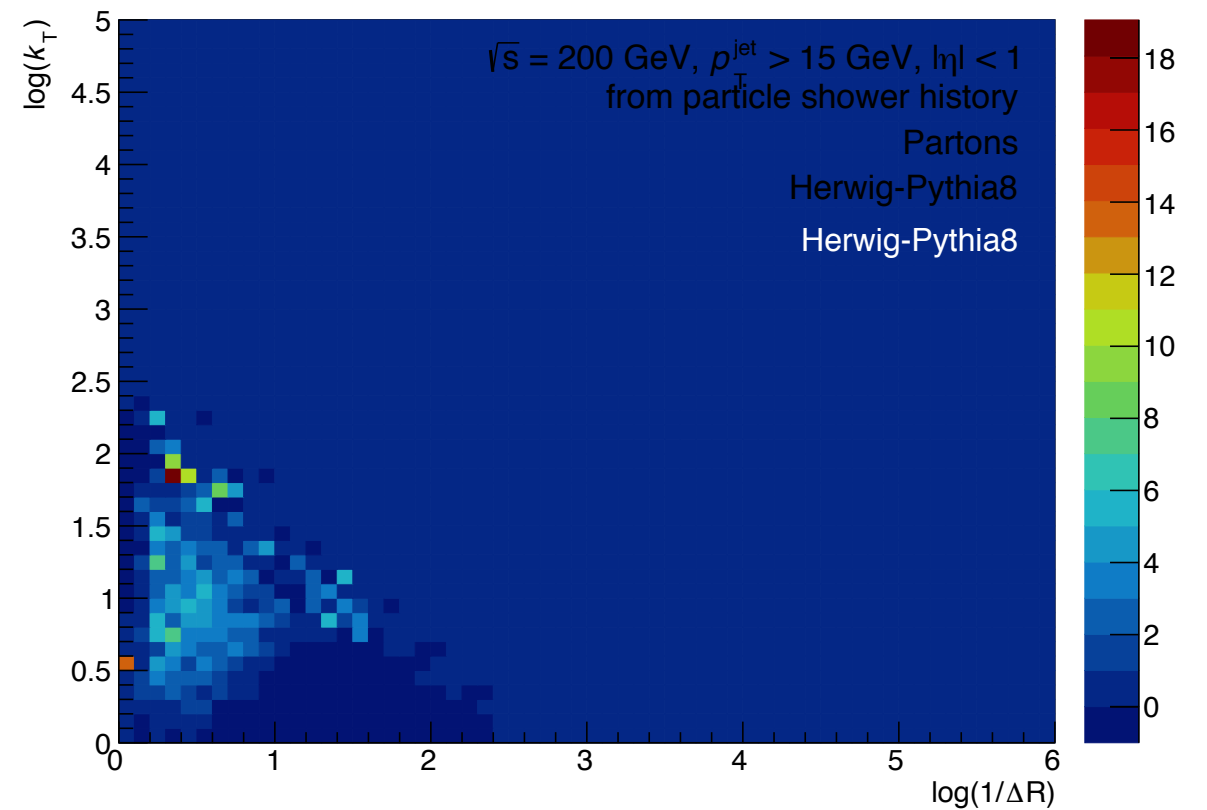
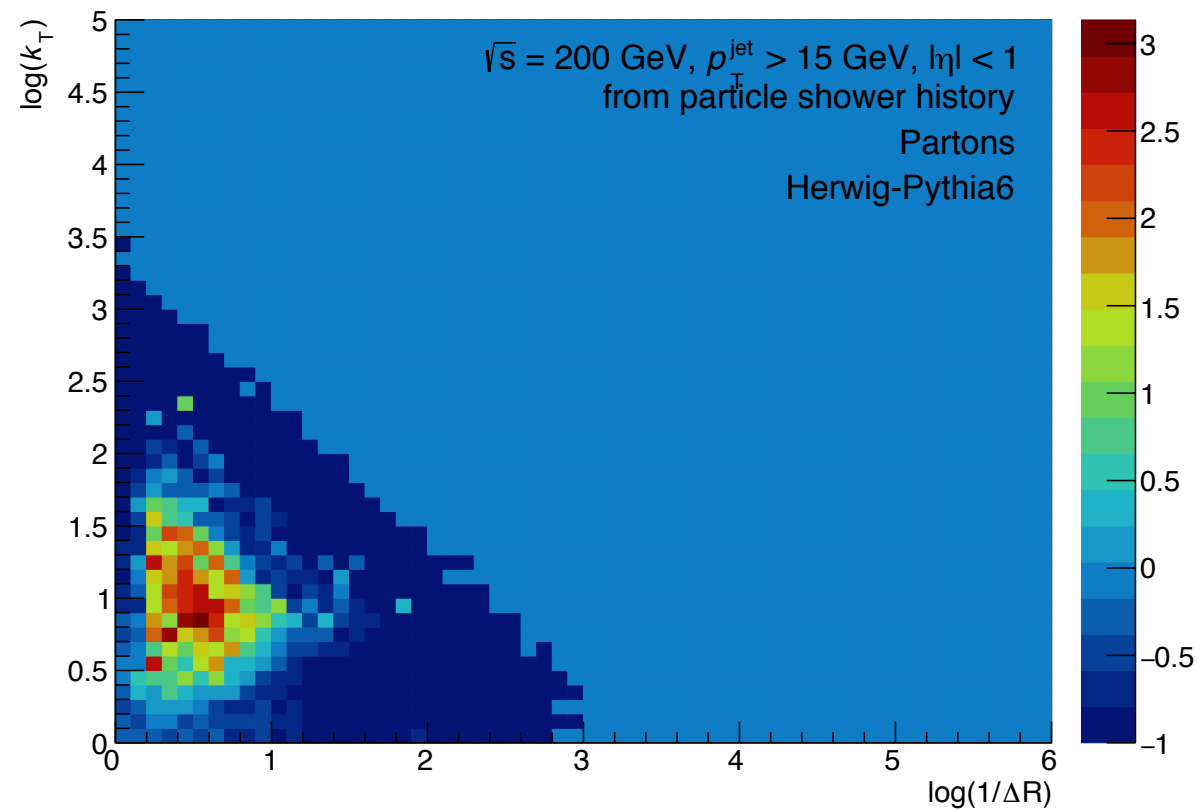


*Relative  
difference*

# RHIC particle history ratios



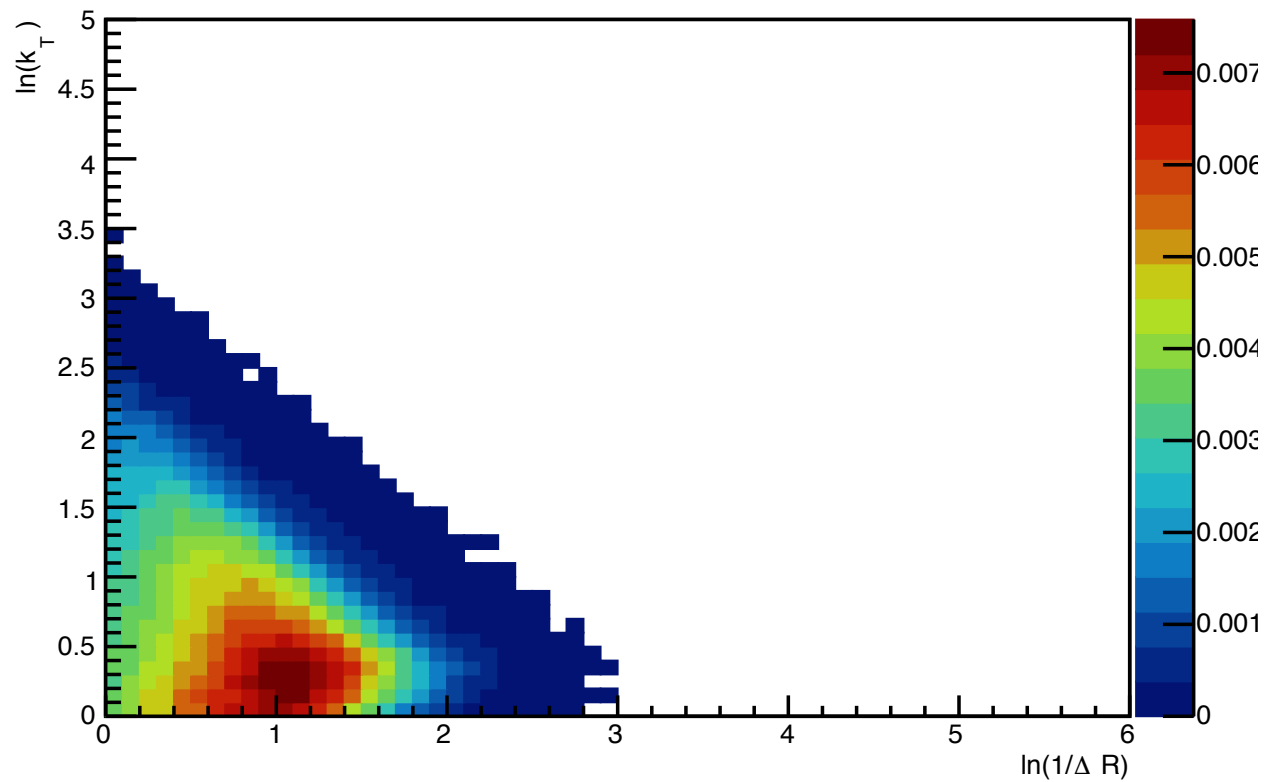
# RHIC particle history deltas



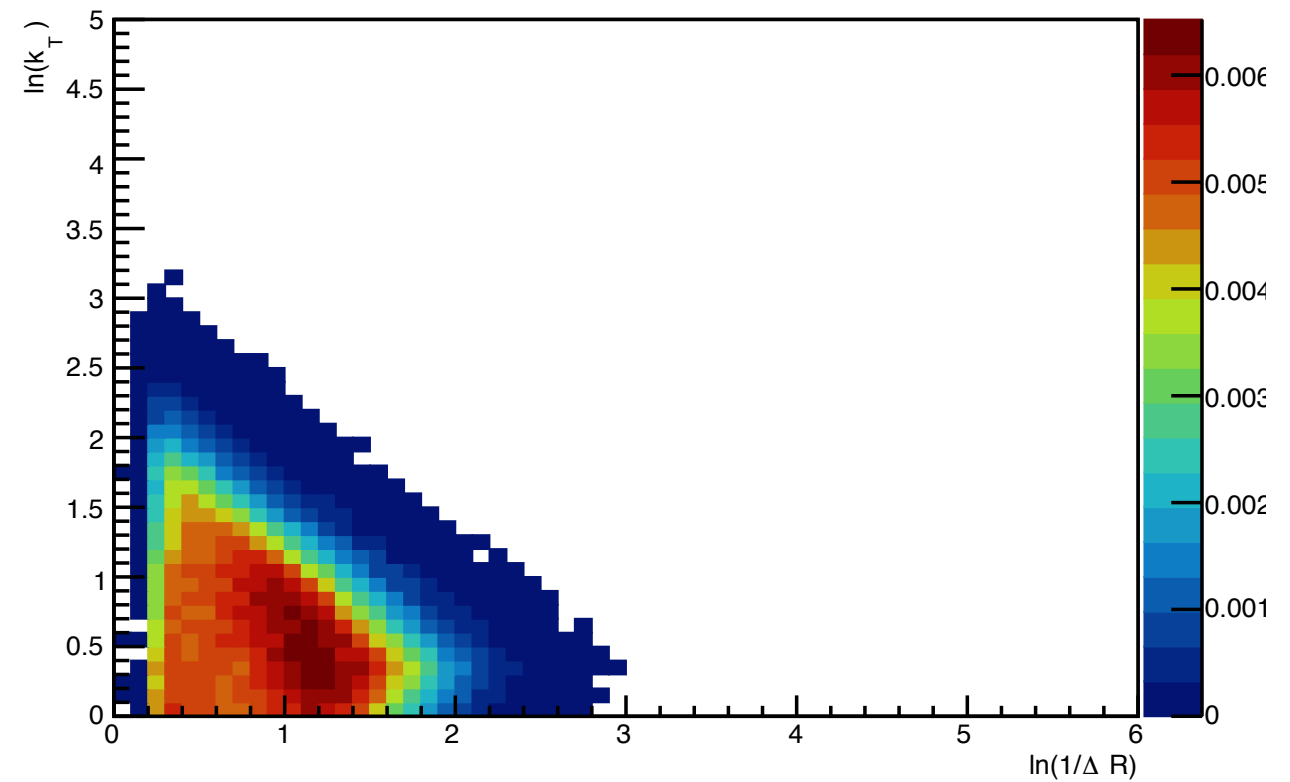
*Relative  
difference*

# RHIC comparing parton clustering

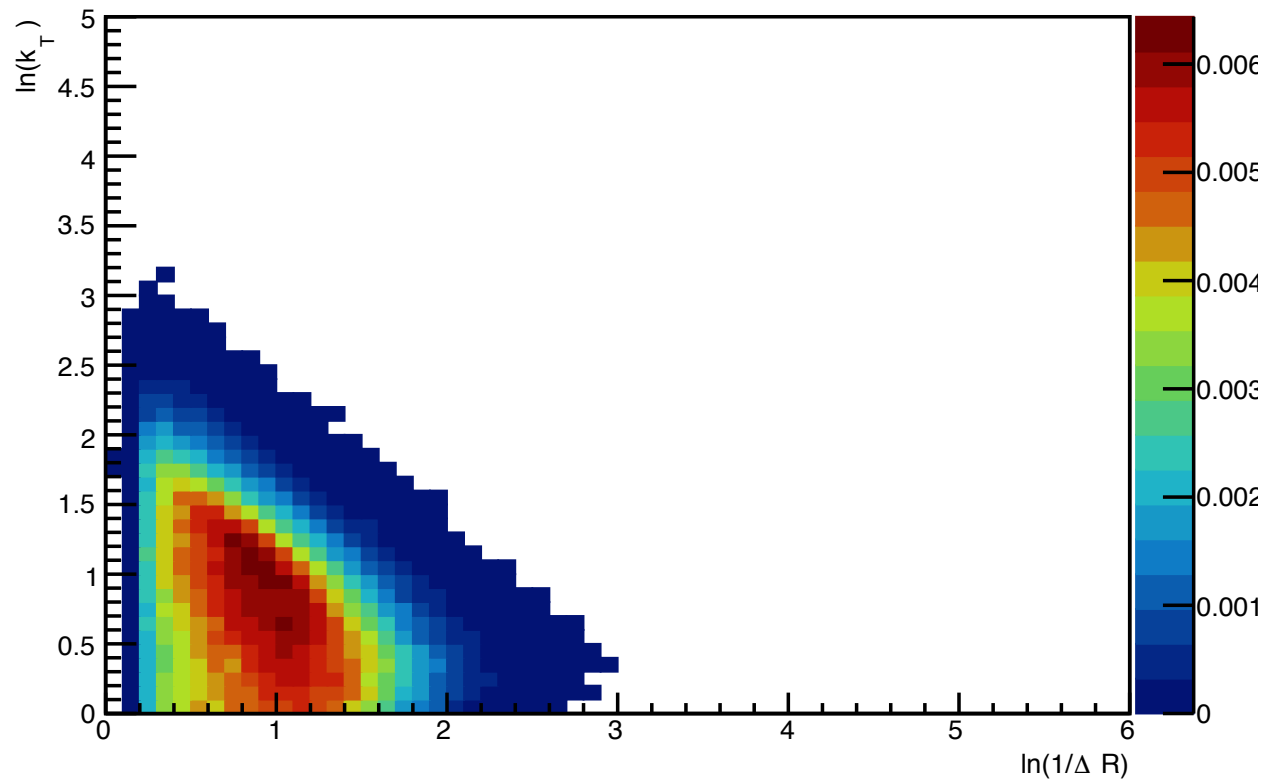
Parton Shower Lund Plane



Partonic Lund Plane w/ C/A



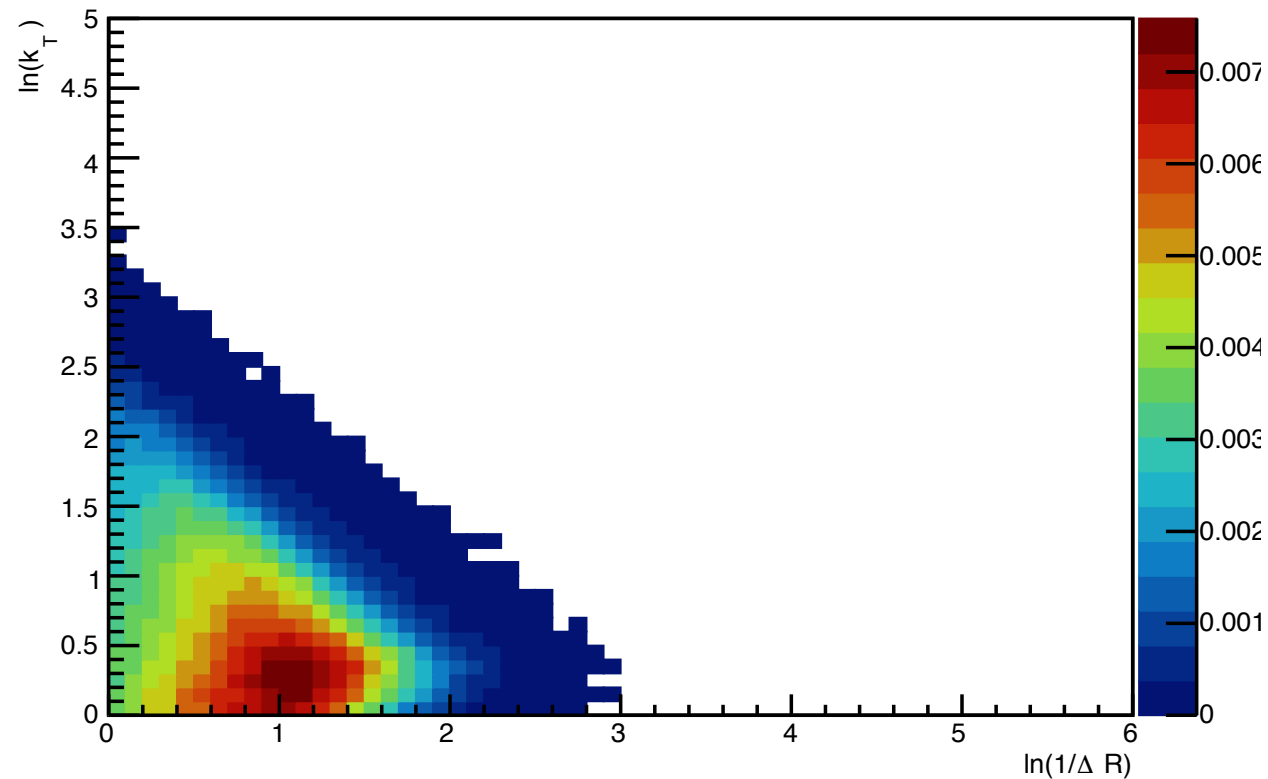
Partonic Lund Plane w/  $k_T$



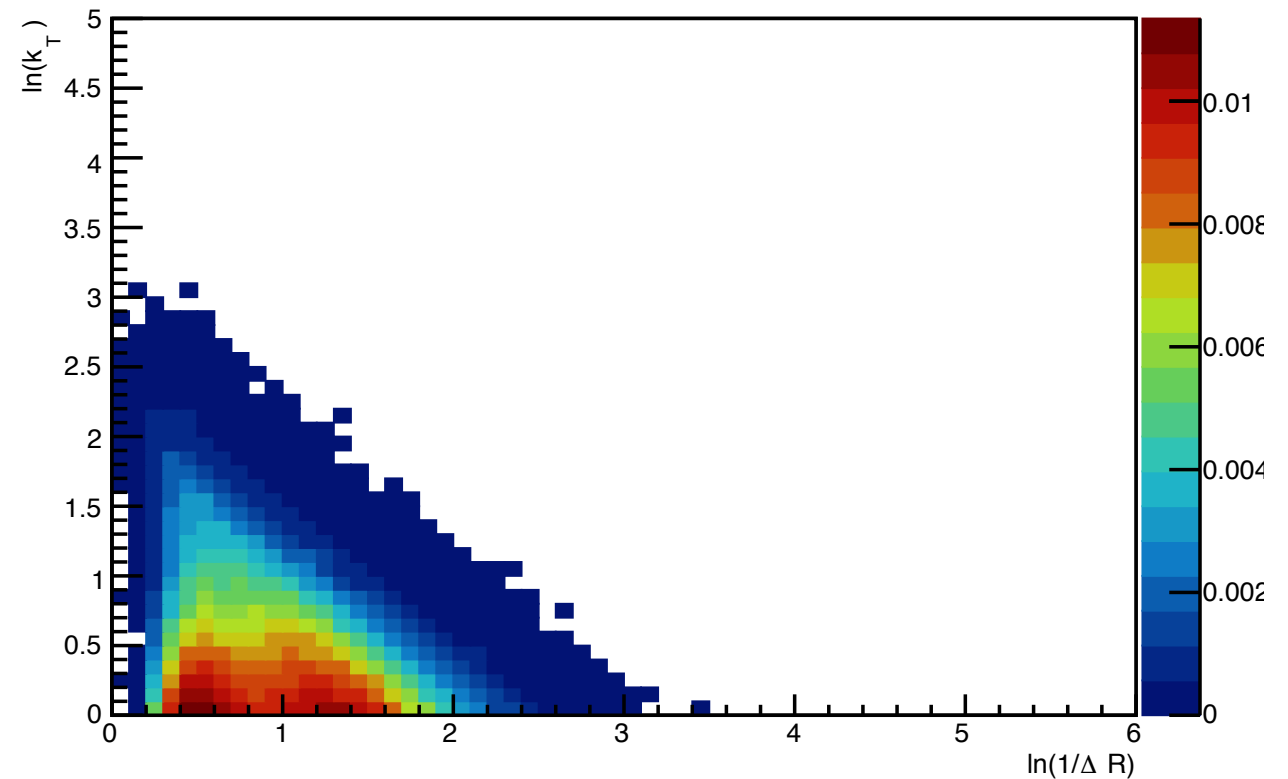
**Pythia 6**

# RHIC comparing hadron clustering

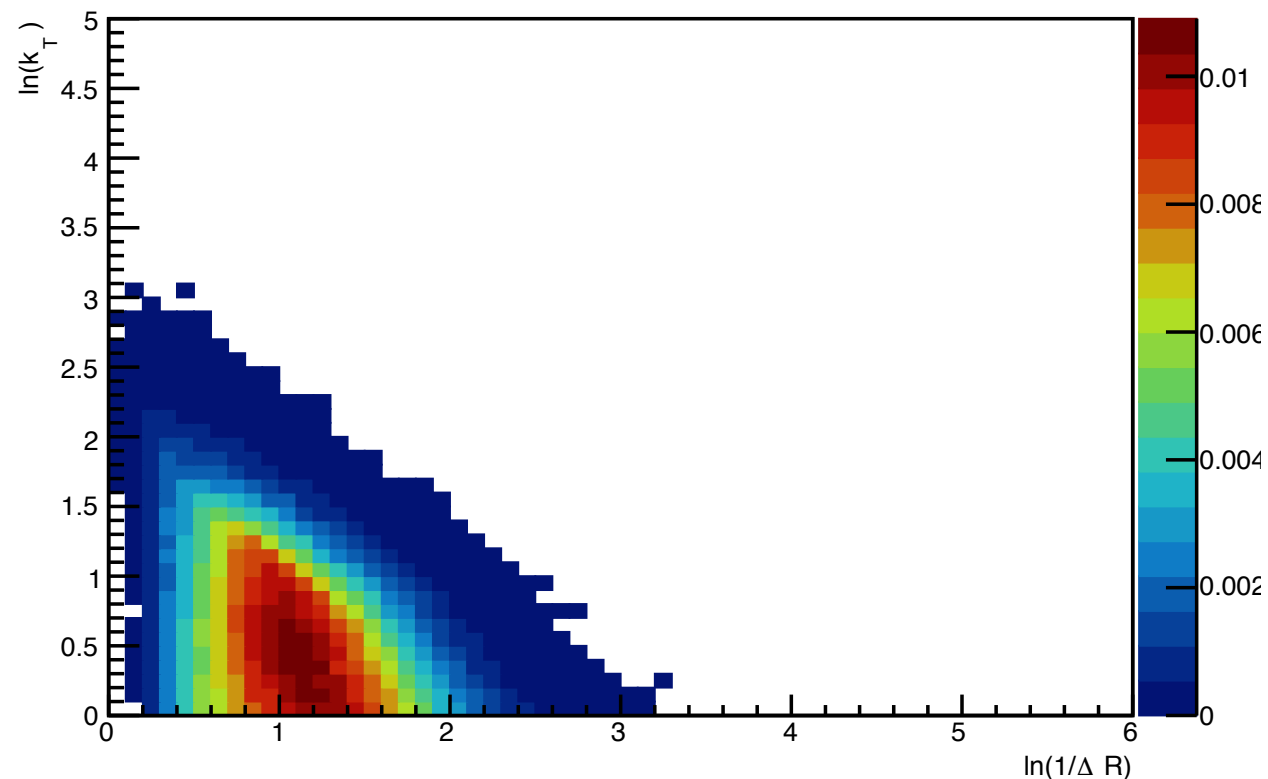
Parton Shower Lund Plane



Hadronic Lund Plane w/ C/A



Hadronic Lund Plane w/  $k_T$



**Pythia 6**