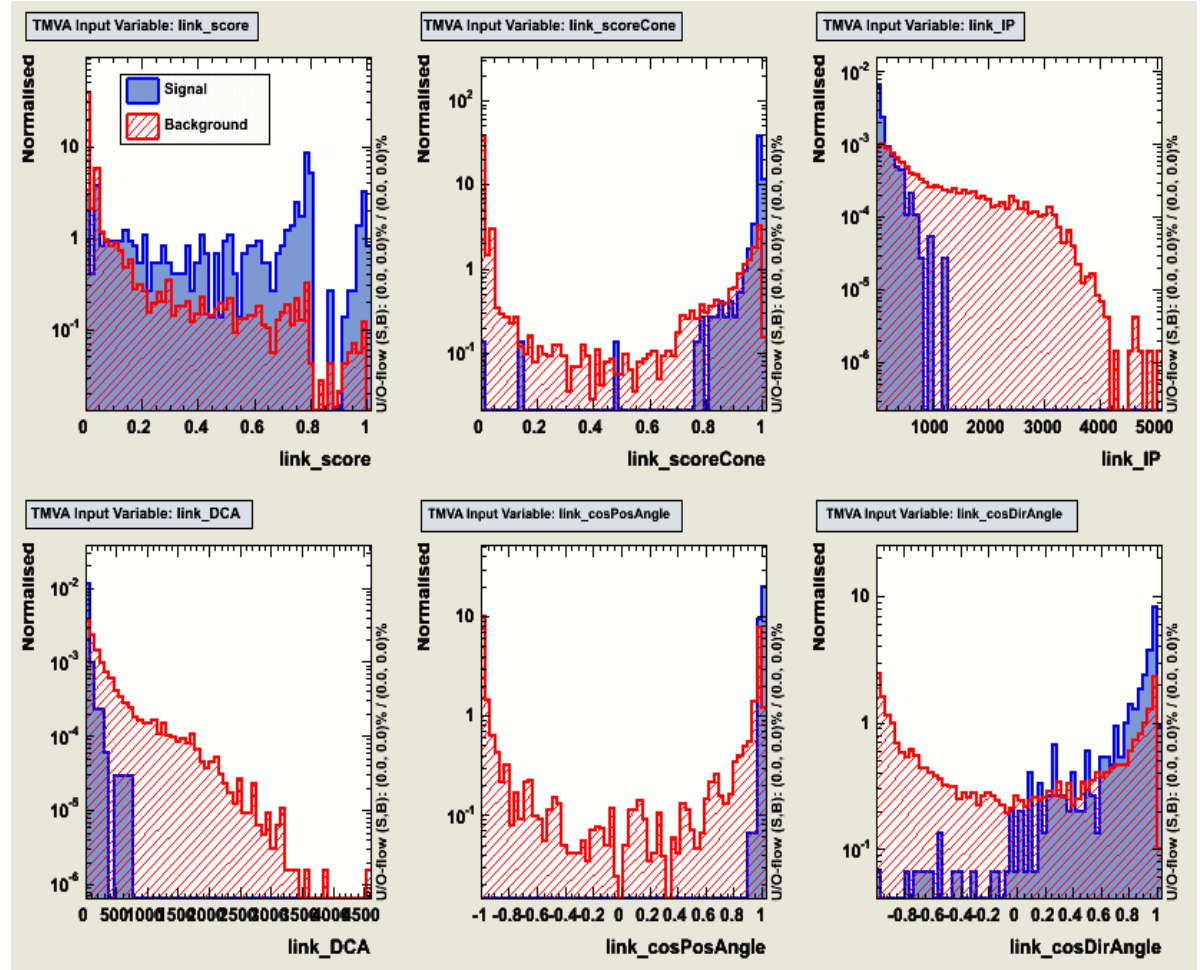
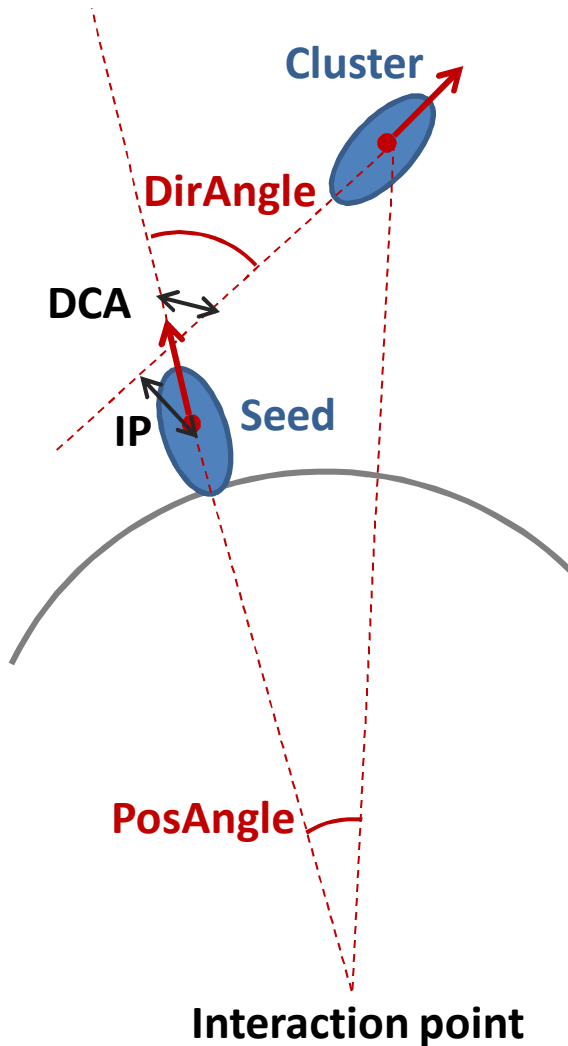


# PFA studies

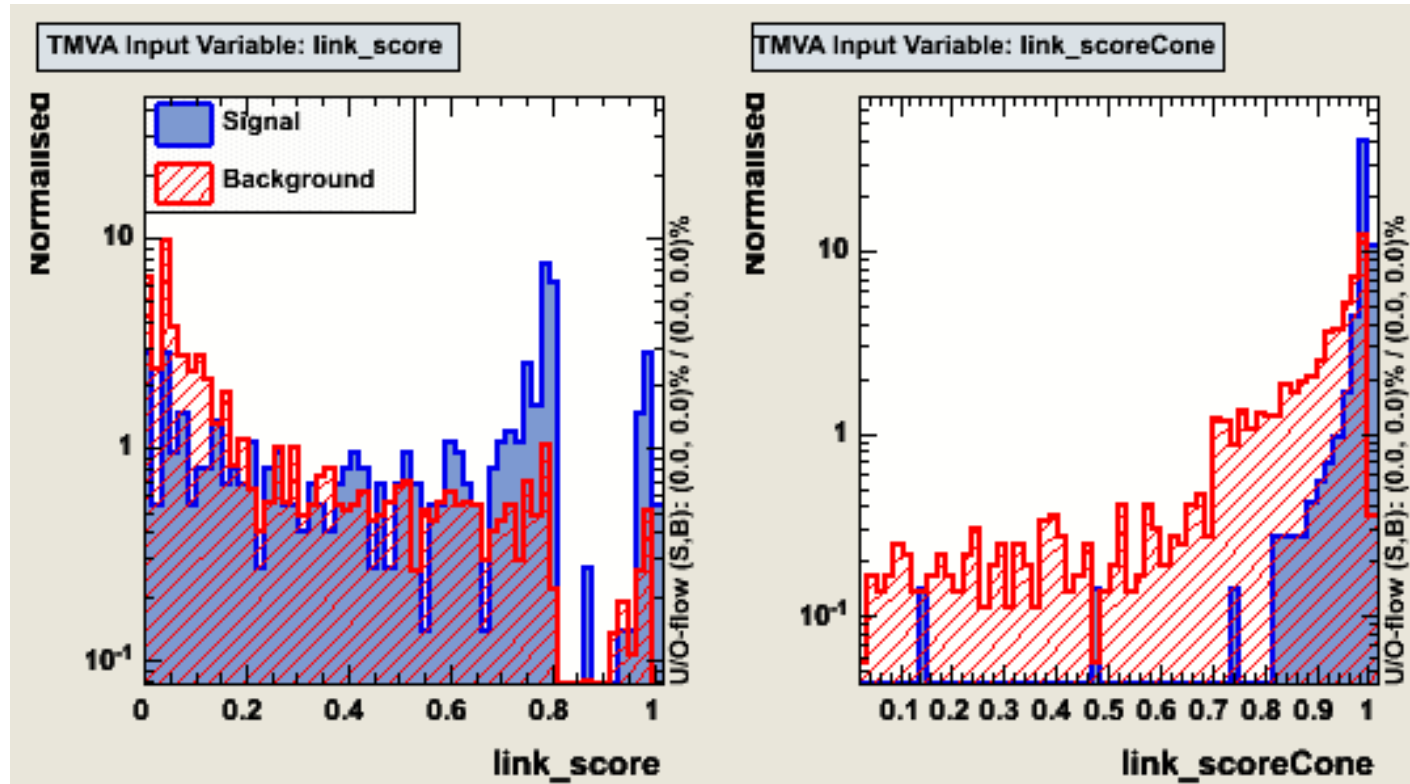
Remi Zaidan

The University of Iowa

# The first cone algorithm



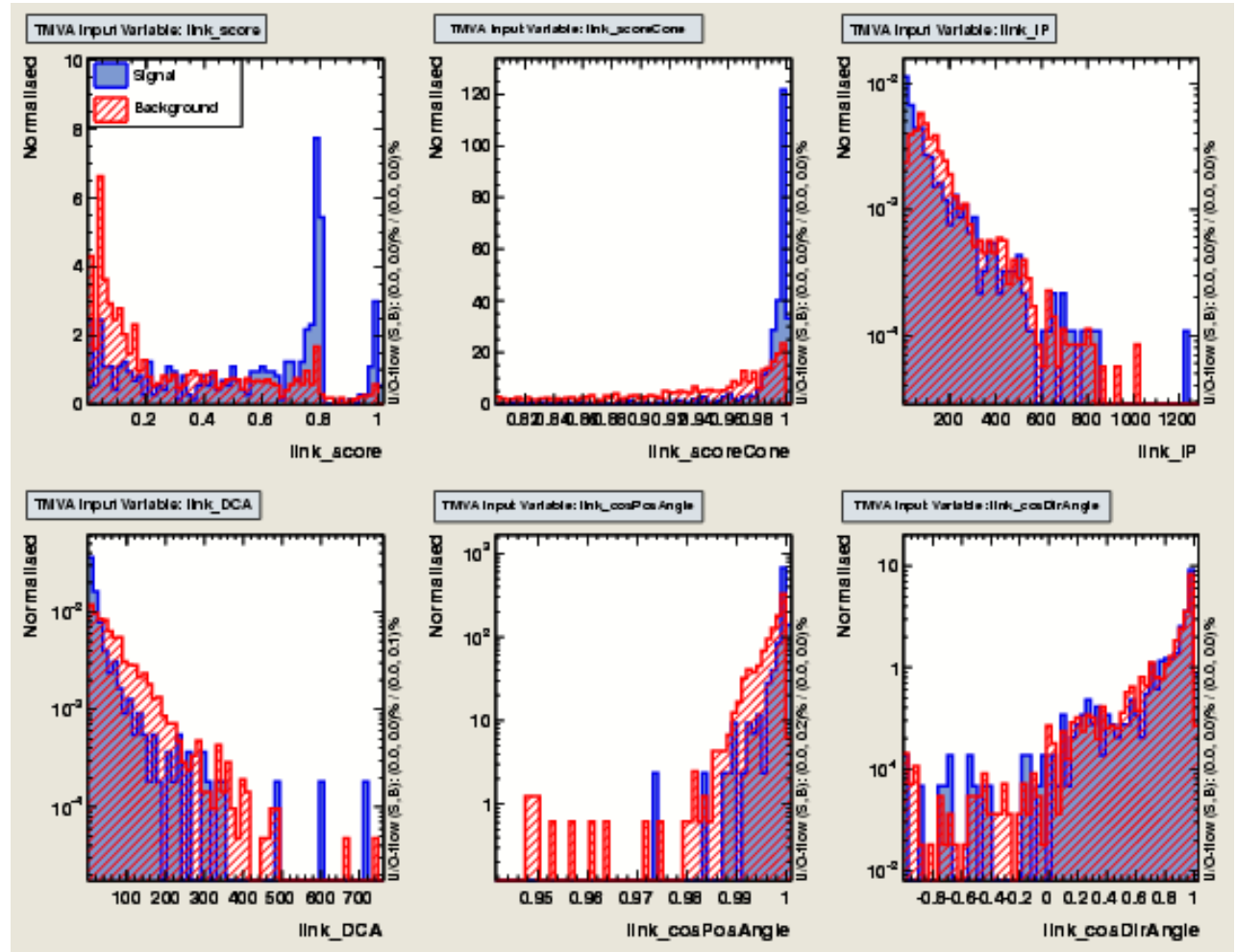
# Links with modified score



**The first cone algorithm is doing what it is supposed to do for signal but not for background**

# Zoom at high score region ( $>0.8$ )

Variables are correlated to the score given by the first cone algorithm when looking at high score regions.



# Current work in progress

- Understand what the cone algorithm is actually doing:
  - Check with high statistics Resolution and Purity with and without the first cone algorithm.