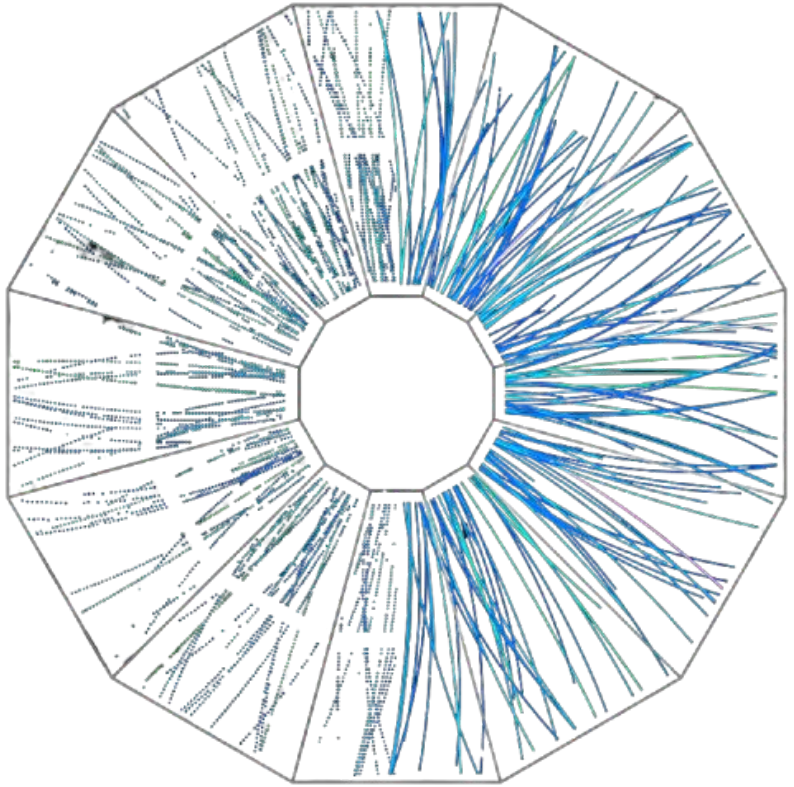
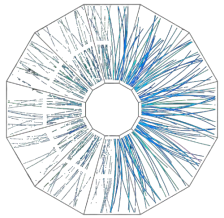
Jet Performance Plots



Dener De Souza Lemos (BNL)

Jets and HF Working Group Meeting

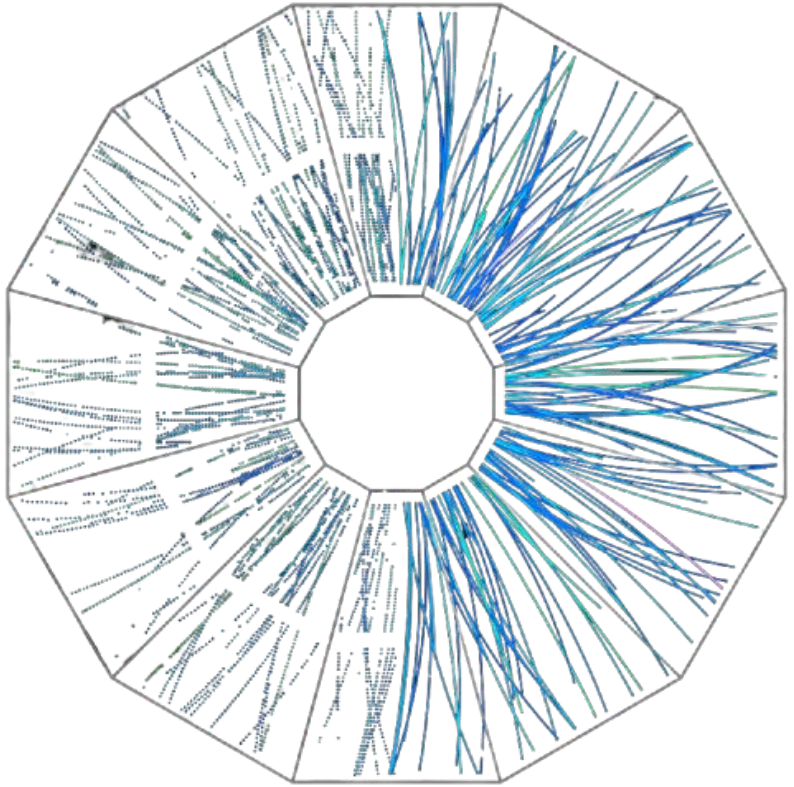


Simulation Details

- Energy: 10x100
- Geometry: **25.06.1**
- ep: official production (NCDIS)
  - PYTHIA8.306
    - **q^2 min = 1** and q^2 min = 10
- eAu: official production (DIS)
  - BeAGLE103
    - **$1 < q^2 < 10$** and $10 < q^2 < 100$

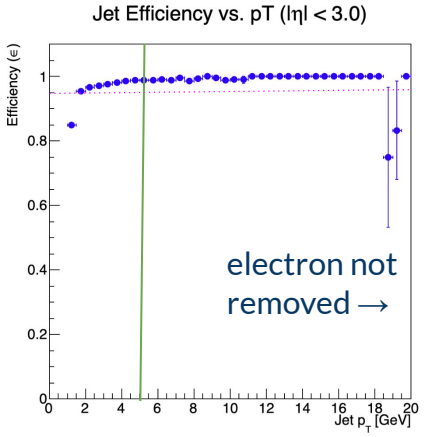
- Jet reconstruction
  - Charged jets:
    - ReconstructedChargedJets
    - GeneratedChargedJets
  - anti-k_T
    - R = 1.0 (default at the jet trees)
  - Jet Tree maker:
    - https://github.com/denerslemos/CHJetTrees

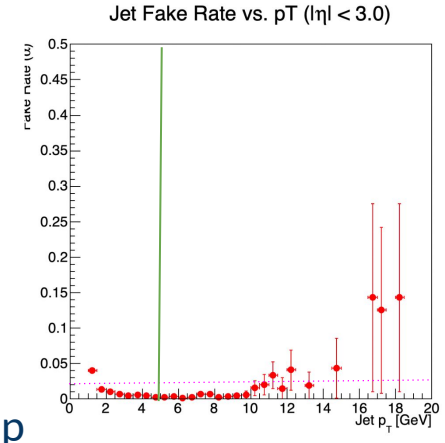
Efficiency and Fake Rate



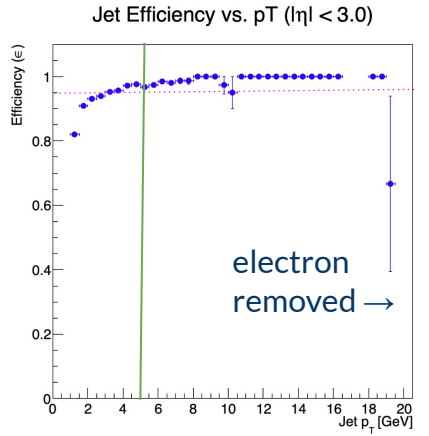
Effect of electron removal

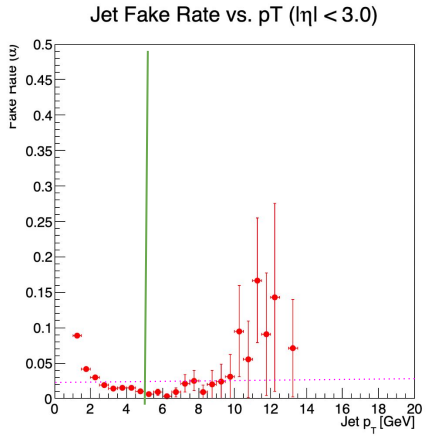
1/10 of stats

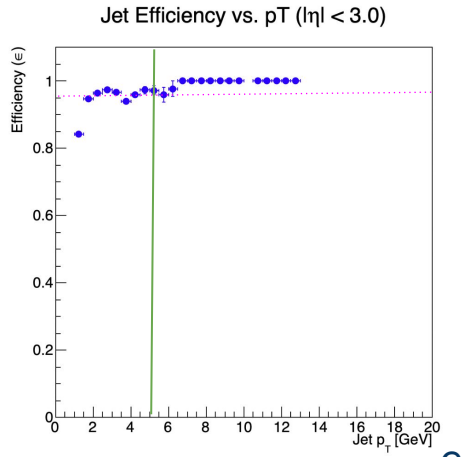


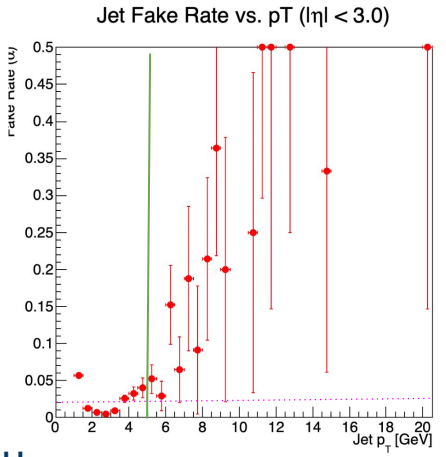


ep

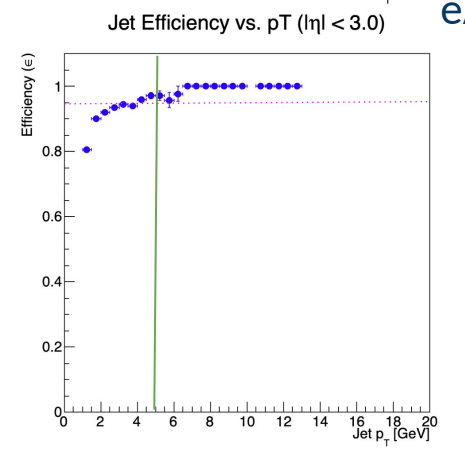


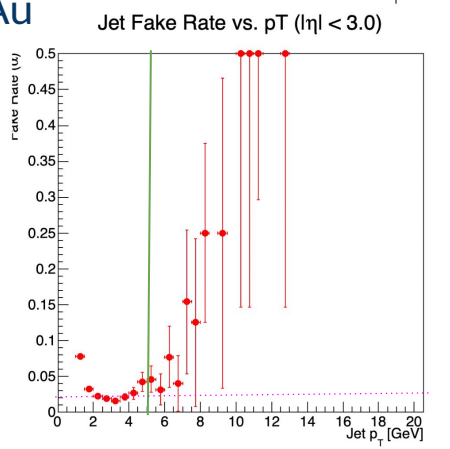


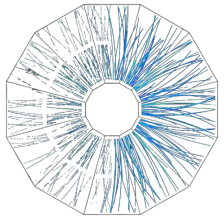




eAu

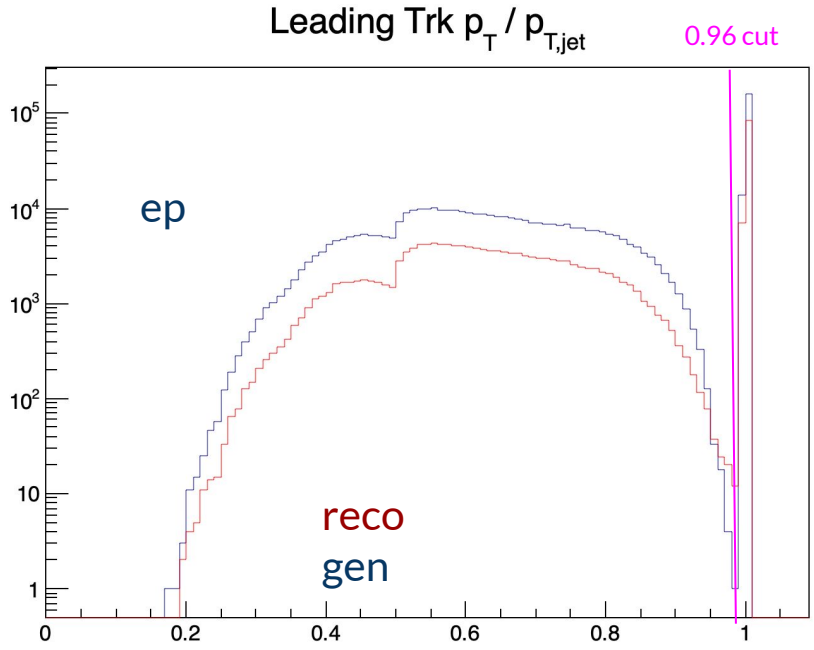


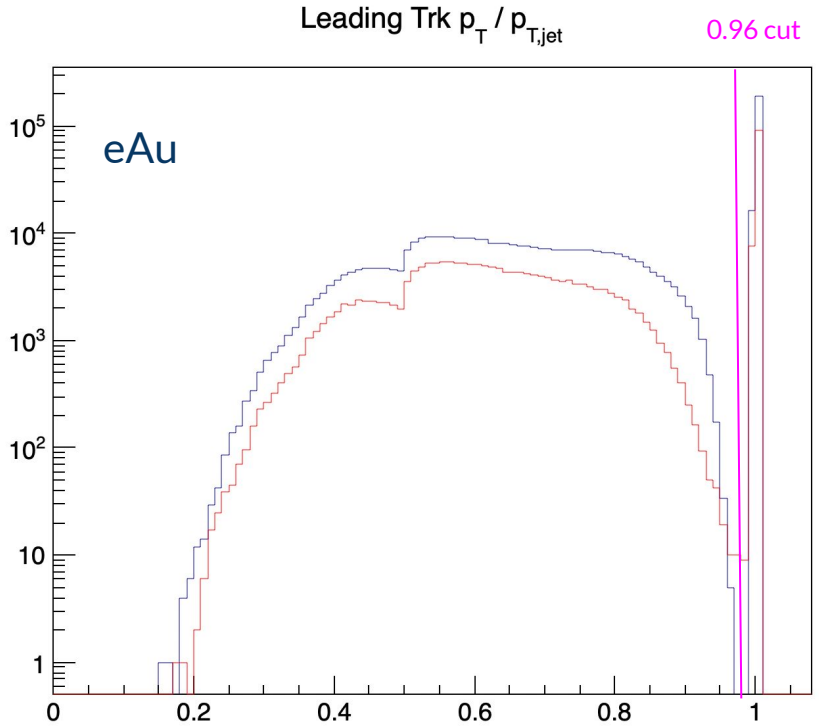




Jets made by one track

1/10 of stats

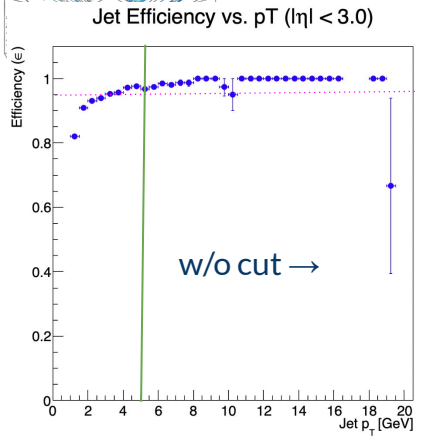


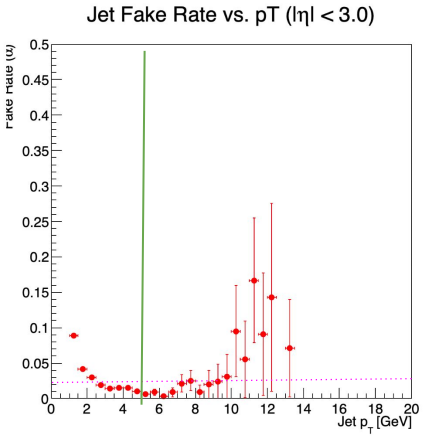


Brookhaven National Laboratory

Effect of single track jet cut

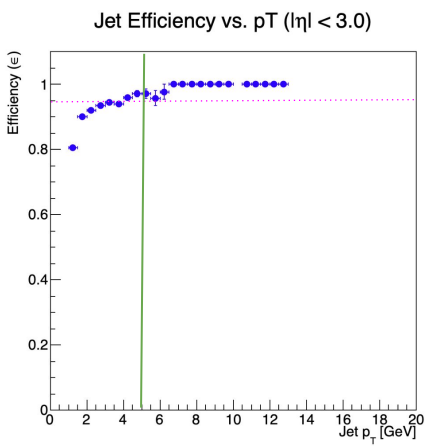
1/10 of stats

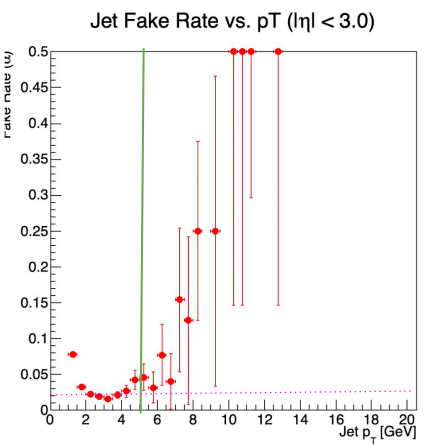




w/o cut →

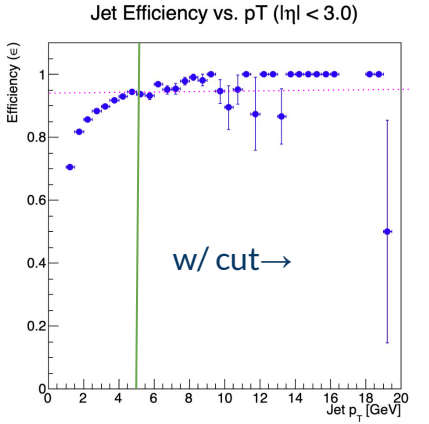
6

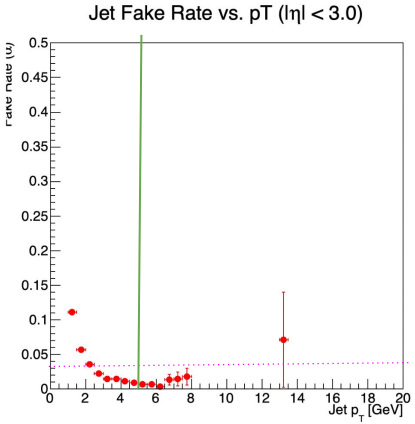




ep

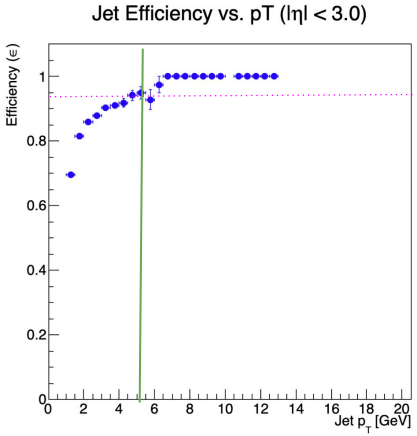
eAu

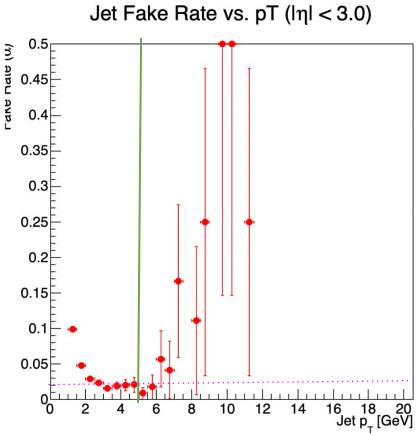


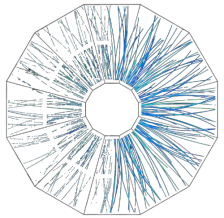


w/ cut→

6







TODO's

- Double check QA's
- Work with fits
- Produce plots using ePIC official style
- Work on physics results
  - R_{eAu} for different jet R
    - FastJet is already working
      - Comparison with official jet tree ongoing

thank you
شكراً جزيلاً
ngiyabonga
рахмат
danke
謝謝
teşekkür ederim
Баярлалаа
mersi
kia ora
barka
welalin
spas
tack
mahalo
tapadh leat
спасибо
faafetai lava
vinaka
спасибі
blagodaram
dank je
misaotra
matondo
paldies
grazzi
gracias
хвала
kiitos
dankie
nanni
nandri
dhanyavad
maururu
köszönöm
akun
dankon
aciü
asante
manana
obrigada
tenki
murakoze
bedankt
bayarlalaa
gràcie
hvala
enkosi
djiere dieuf
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dziękuję
дякую
mamnun
chokrane
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gratias ago
gràcies
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taiku
go raibh maith agat
sobodi
dėkuji
obrigado
sagolun
sukriya
kop khun krap
takk
arigatô
dakujem
trugarez
mèsi
didi madloba
ありがとう
najis tuke
tanemirt
grazie
terima kasih
rahmet
kam sah hamnida
rahmat
ευχαριστώ
diolch
dhanyavadagalu
shukriya
merce
мерси
তোমাকে ধন্যবাদ
감사합니다
xièxie
merci