First look at R_AA

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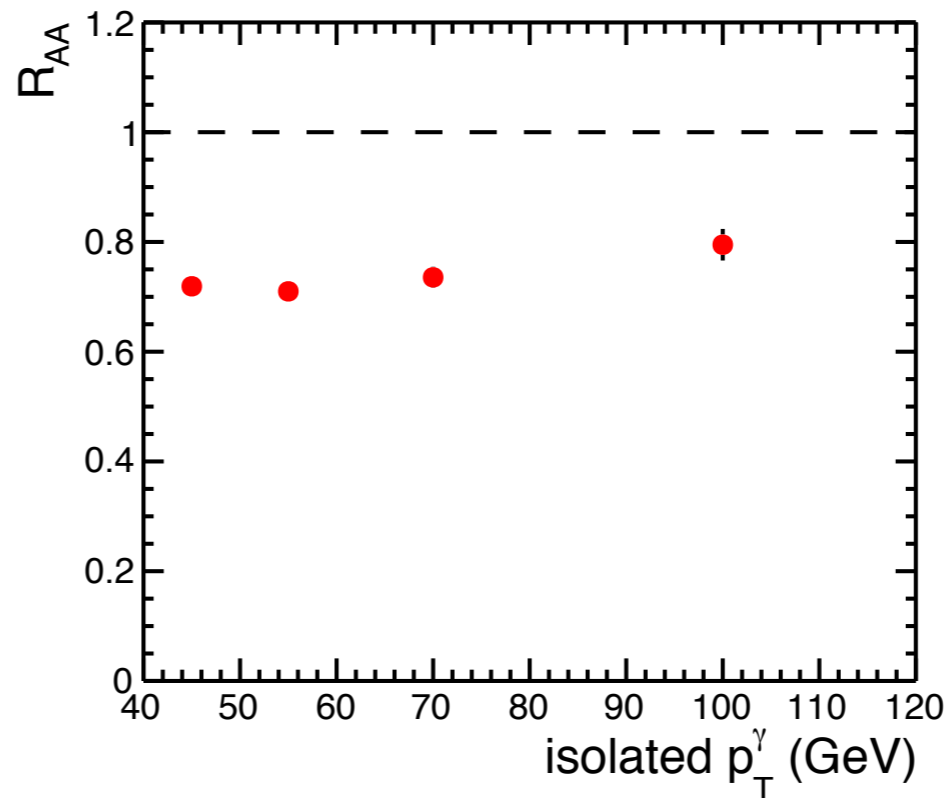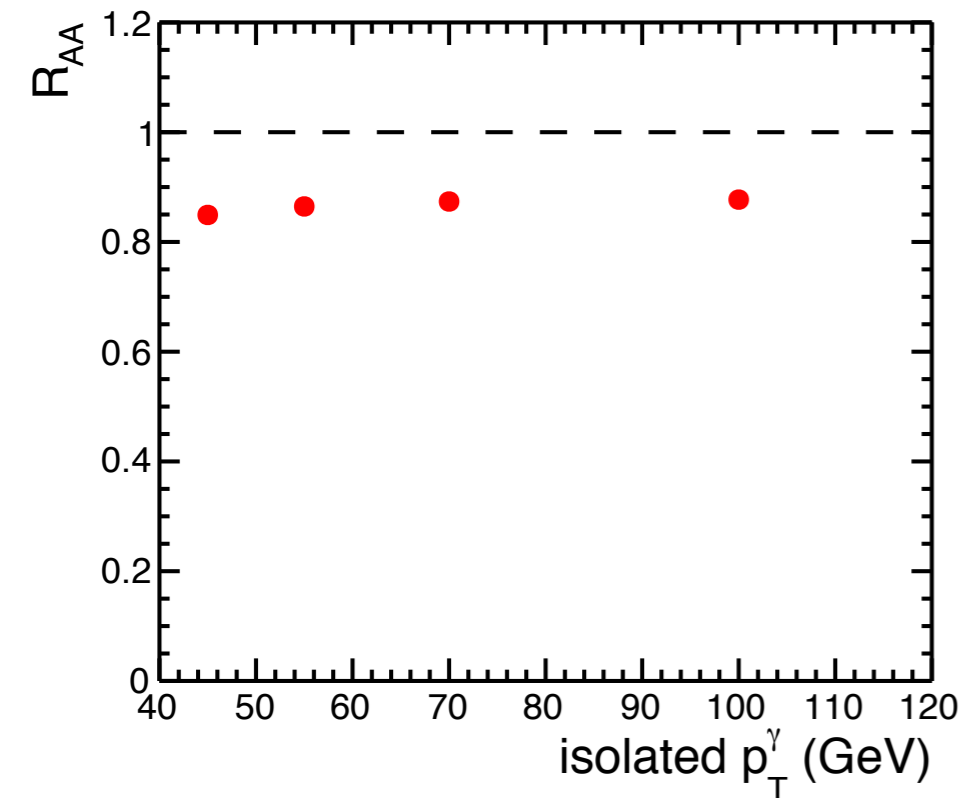
First look at photon R_AA

0-30 %

30-100 %

$$R_{AA} = \frac{d^2 N_{AA} / dp_T d\eta}{\langle T_{AA} \rangle d^2 \sigma_{pp} / dp_T d\eta}$$

$$\langle T_{AA} \rangle = \langle N_{coll} \rangle / \sigma_{pp}^{inel}$$
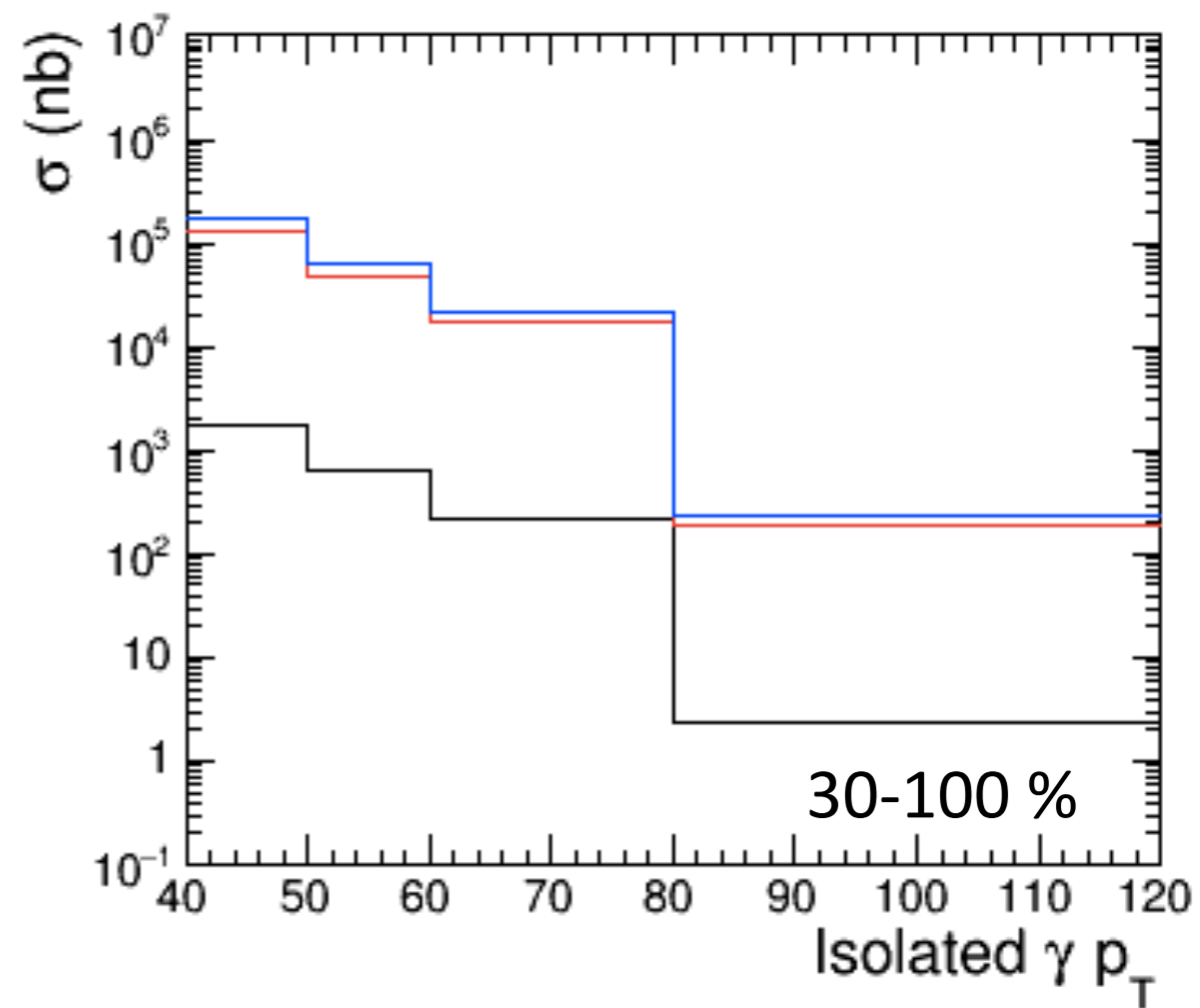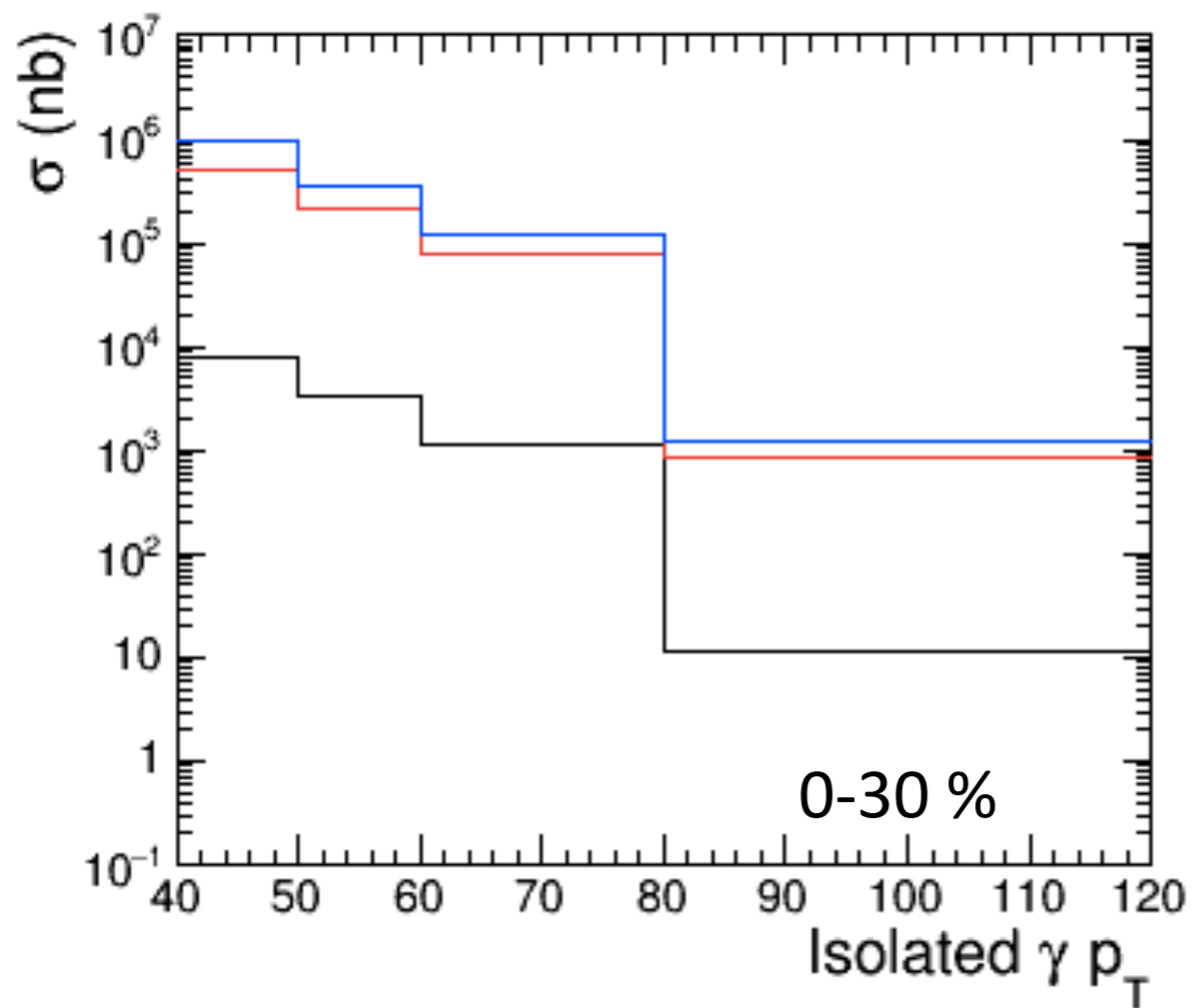
- **0-30 %**
  - $\langle T_{AA} \rangle$ = 15.41
  - N_{MB} = 7.75 mb * 404 μb^{-1} * 0.3
  - L_{pp} = 25.775 pb^{-1}

- **30-100 %**
  - $\langle T_{AA} \rangle$ = 1.405
  - N_{MB} = 7.75 mb * 404 μb^{-1} * 0.7
  - L_{pp} = 25.775 pb^{-1}

- **T_{AA} from centrally group**
- **Purity values from Alex**

0-30 %

30-100 %

— Raw
— Raw*purity
— Raw*purity*efficiency