Exclusive e+Au Phi Update Sept 10,2021

Justin Frantz

Ohio University

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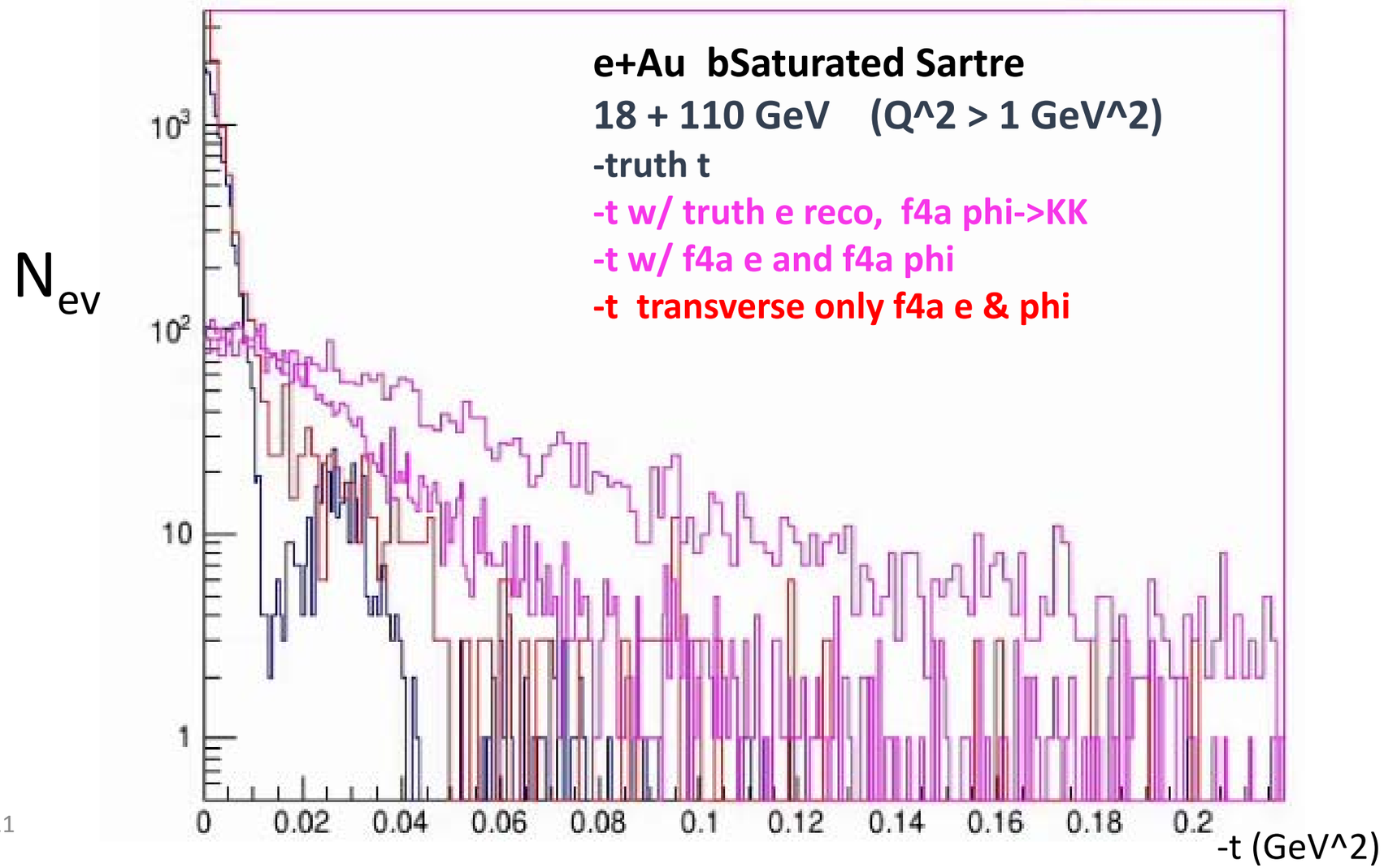
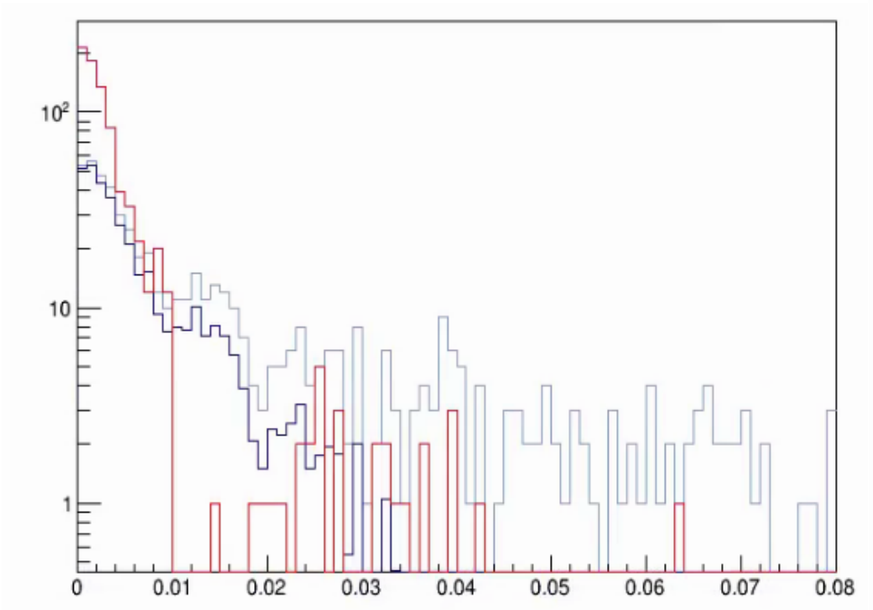
Money Plot v1

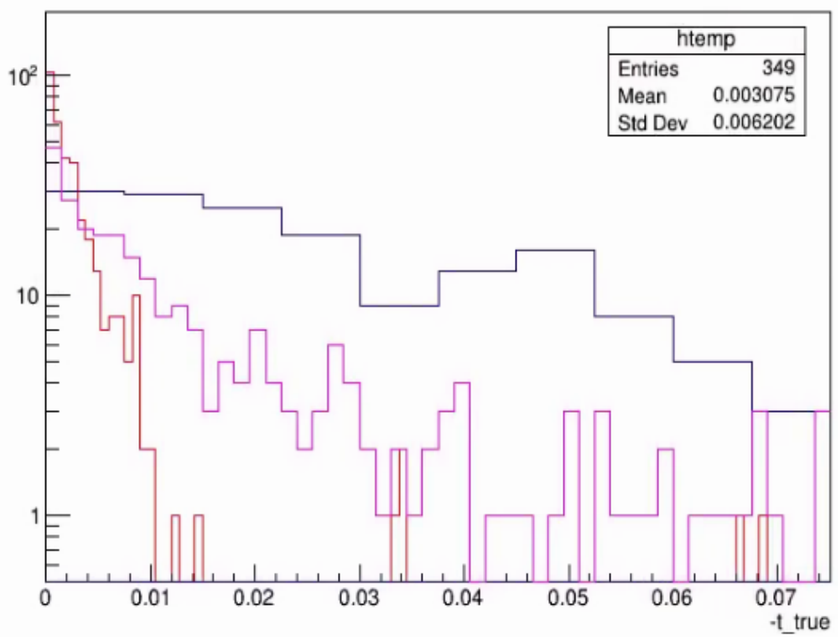
- Eventually shooting for higher statistics version and cleaner version of this plot (less of the ingredients– just final reco t and truth but also plus BeAGle Bkg)

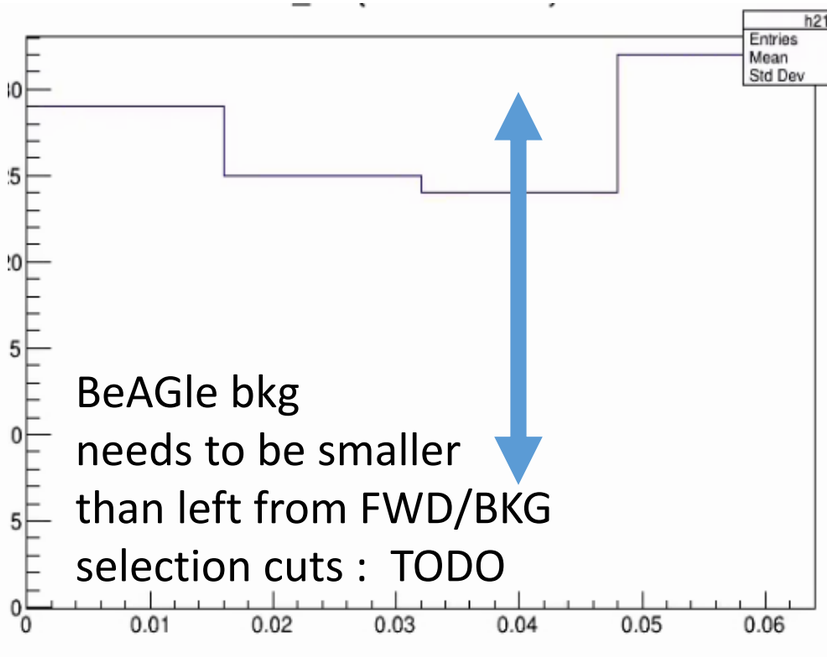


Status of eA Phi

- Even lower stats versions of plots (~1000 ev) – proof-exercising of code







e+Au bSaturated Sartre **OLD IP6**

18 + 110 GeV (Q^2 > 0.5 GeV^2)

-truth t

-t_transv w/ f4a e & phi->KK

-t_transv_beam cross (all f4a)

-

e+Au bSaturated Sartre

BUT USING IP8 - ana.24 – Billee tagged production macros (but on SDCC)

18 + 110 GeV (Q^2 > 0.5 GeV^2)

-truth t

-t_full w/ f4a e and phi->KK

-t_transverse w/ f4a e and f4a phi

e+Au BeAGLE

BUT USING IP8 - ana.24 – Billee Macros

18 + 110 GeV (From Mark B)

-t_transverse w/ f4a e and f4a phi

-

Outlook – Need Billee Production

- Signal plots have no FWD/BKWD detector selection cuts; Peter seemed to indicate this is ~well underway (?) I will use exactly what he is using.
- No PID real or "self smeared" for Kaons or electron (electron ID truth match)
- UPDATES: NEED TO GET ON BILLEE PRODUCTION for Higher stats
- Good news : I used Billee's tagged production macros and ana.24 [although on rcas—did my training, waiting for Jlab account!!!]
- I also added the event_tree Event evaluator….and Fwd Evaluator (last night)… Should be available
- Mark made (bkg) BeAGLE e+Zr e+Pb Phi files (and e+Au) 18+10X GeV energy -- can put these on Billee production now - But no lower energy 5x41 (?)
- I can quickly make Sartre e+Au input files…. Peter it seems like there is now e+Pb and e+Zr Sartre. … need to get tables or have Billee make from scratch
  - Assume this is all debugged by Peter already…