

A^* Progress

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Background

- Skim 11 data set used:

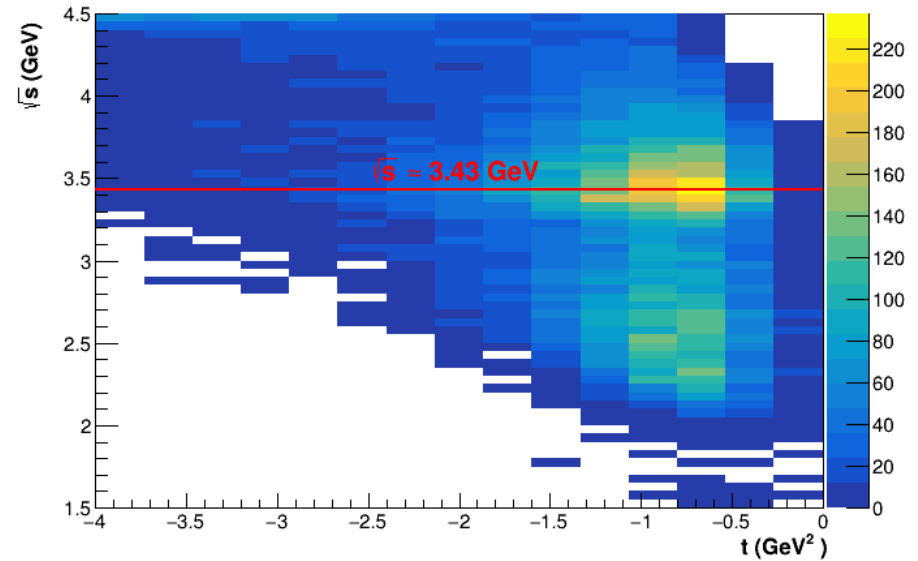
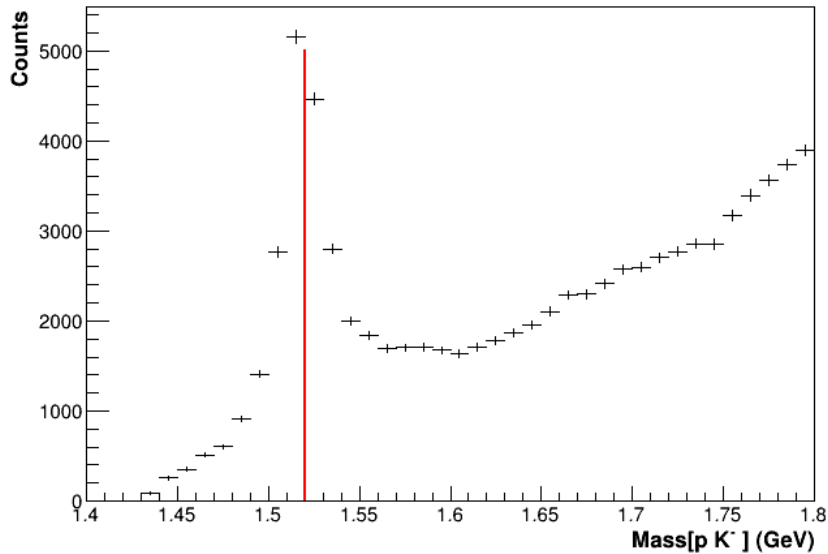
/cache/clas12/rg-a/production/recon/fall2018/torus-
1/pass1/v0/dst/train/skim11/

- Trigger particle is an electron in the Forward Tagger
- Geraint's FT electron correction used:

$$E' = E - (.0004)E^4 + (.0071)E^3 - (.0432)E^2 + (.1356)E - .0257$$

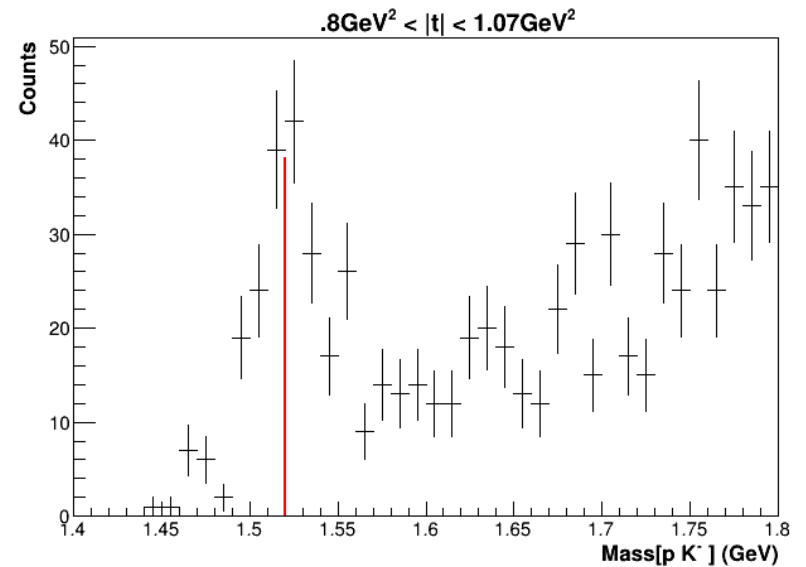
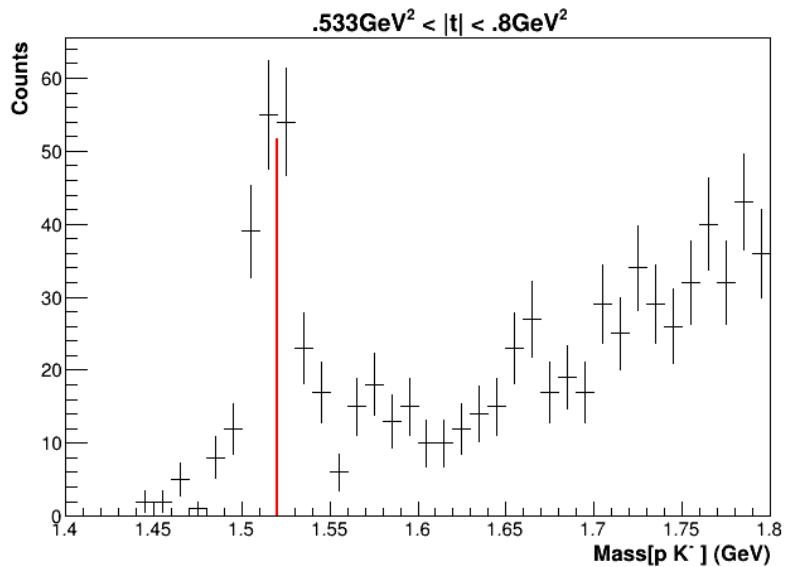
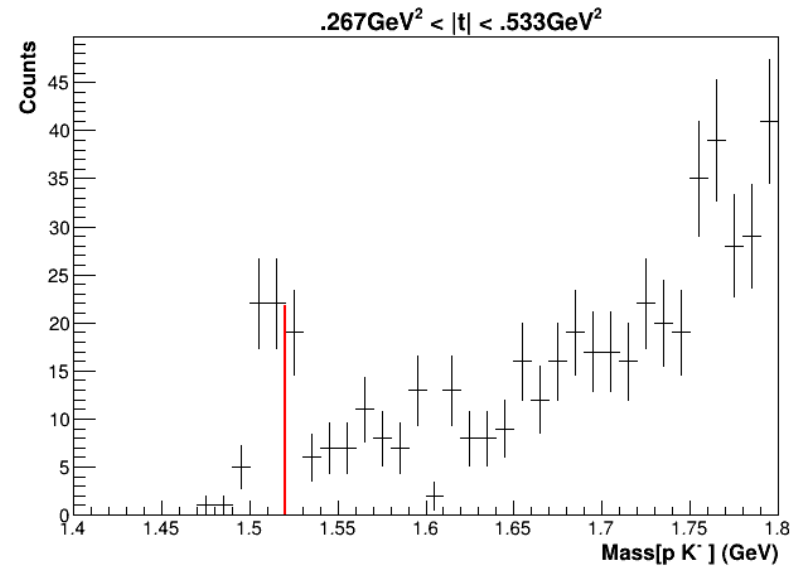
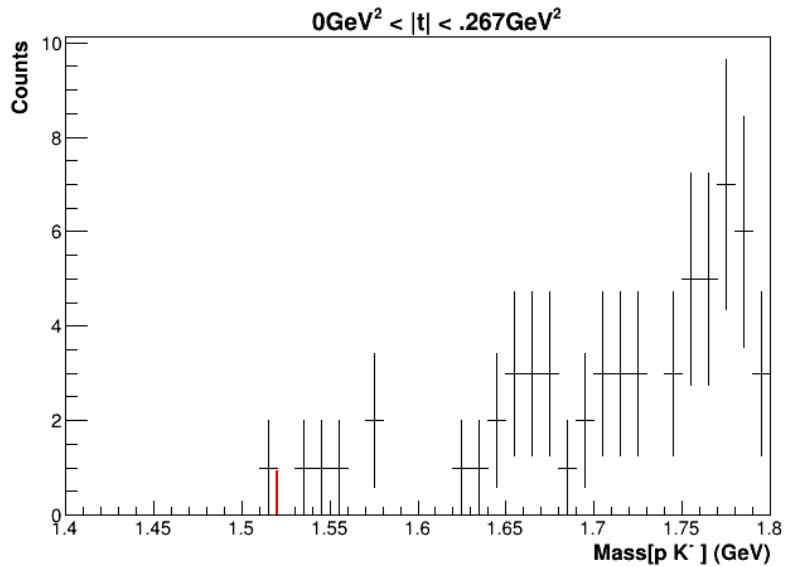
- No extra charged particles allowed in any reactions
- No corrections used for hadrons
- No momentum cuts made

$\Lambda(1520)$ Search Using $[\gamma p \rightarrow \Lambda^* K^+ \rightarrow p K^- K^+]$



- Total missing mass² cut made at .02GeV²
- K^+ hit in the Forward Detector
- Mass [$K^- K^+$] > 1.03GeV
- $1.48\text{GeV} < \text{Mass}[p K^-] < 1.55\text{GeV}$

Mass[$p K^-$] for $3.40\text{GeV} < \sqrt{s} < 3.45\text{GeV}$



Mass[$p K^-$] for $3.40\text{GeV} < \sqrt{s} < 3.45\text{GeV}$ (continued)

