BeAGLE update

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Impact of maximum $E^* = 3$ GeV

$E_{\text{exc}}^{\text{max}}$ set to 3 GeV in this run.
Fluka now sees only $\text{Max}(E_{\text{exc}}, 3\text{GeV})$.
(can probably raise that value a bit).
Impact of maximum $E^*=9$ GeV
Note: Increasing E*max to 15 GeV caused the program to hang again. So 9 GeV is a good choice.
Correlation of Nn and Np "evap"

Line: \( Nn = 25 + (A/Z)Np \)

Neutron evaporation

Breakup
Proposed PyQM plots for midOct.

- Light flavor
  - Ignore target remnant evaporation/breakup
  - Ignore momentum (non)-conservation
  - Ignore pt broadening
  - Just fit HERMES $R(z)$ vs. $\tau_0$ and $q$-hat as is.

- Heavy flavor
  - $R(z)$ for JLEIC for D particles w/ charm treated as either light or heavy
Plans

- Released $E_{\text{max}}^*$ code at BNL. Not yet @ JLAB.
- Working on BeAGLE in the case of "offgrid" EPS09 A-values.
  - Hannu Paukkunen ("P") suggests just using nearest A values. $R^{(A)}(x,Q^2)$ is a slow function of A.
- Urgent PyQM need (by end of next week): Heavy flavor. Proper transverse broadening and any other improvements (like iEg=1) can wait.