



Modification to genEtaRegge

- Want to generate sufficient MC statistics for all phase space
 - All $\cos(\theta_{cm})$
 - But also want to preserve slope at small $|t|$
- Previously: added option to be completely flat in $\cos(\theta_{cm})$
- Now: take $\max(\text{Laget_model}, \text{flat term})$ in specified t-range
 - Specify in config file
 - Pull request done, but not in a tagged release yet

```
#beam configuration file
cobrems.conf
#mass[GeV] width[GeV]
0.547853 0.000
#g_eta_gamma_gamma g_rho_eta_gamma g_omega_eta_gamma g_phi_eta_gamma
0.0429 0.81 0.29 0.38
#Number of decay particles
2
#GEANT ids of decay particles (1=gamma, 7=pi0, 8=pi+, 9=pi-, 17=eta).
1 1

#Uncomment lines below to generate uniform distribution of events between tflat_min to tflat_max
## where uniform distribution xsec is evaluated at xsec(E_gamma, tUnif_min)
## Lines must start with keyword tflat_min or tflat_max!
tflat_min 0.8 # start uniform distribution after this number
tflat_max 25 # 25 GeV^2 is good for both eta and eta'. OK to set number above physically allowed tmax.
```

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Thrown $-t$ distribution

