

Luminosity simulation with Guinea-Pig(++)

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Summary plot

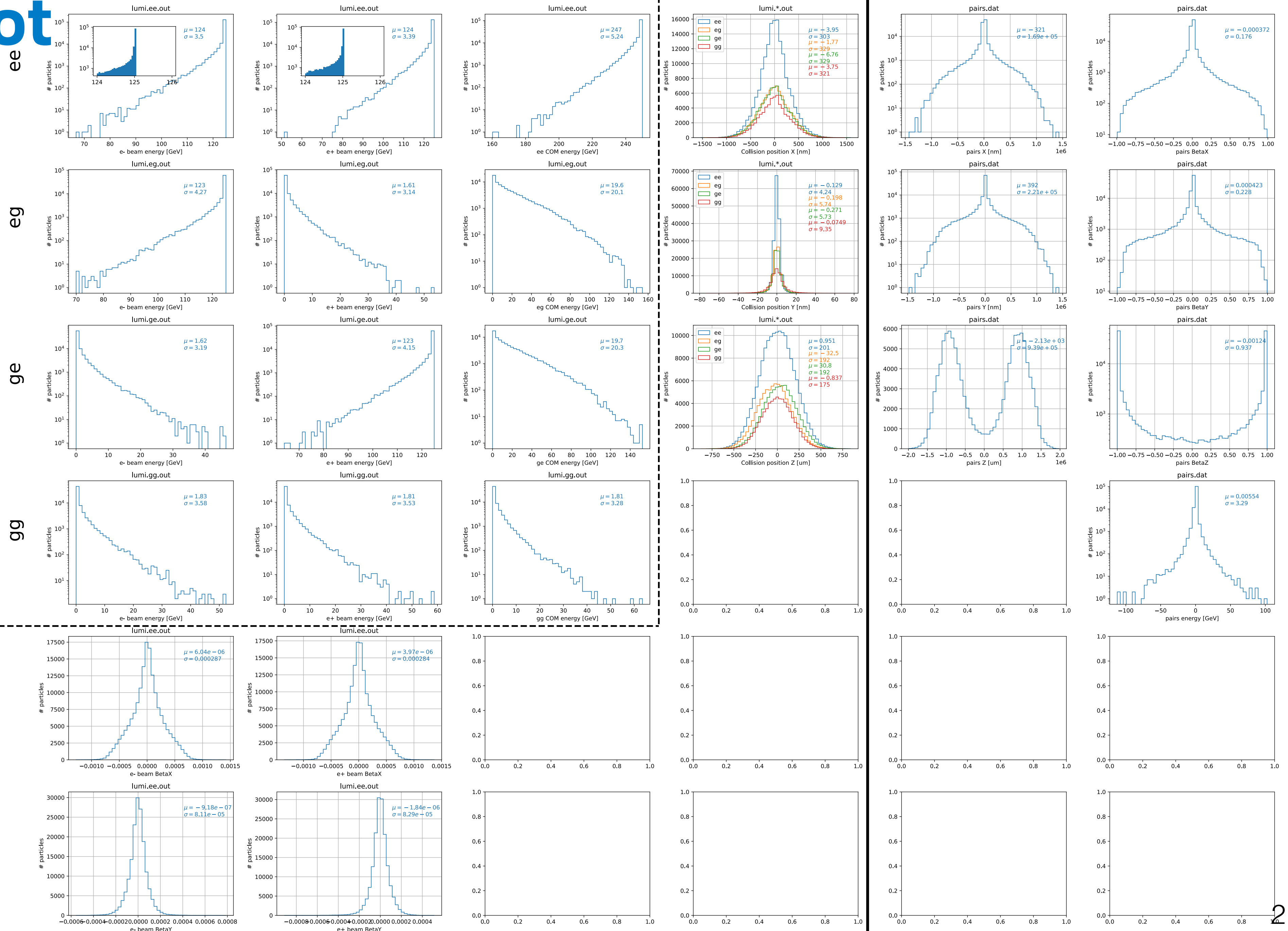
- ILC250 mockup
- GuineaPig++ example
- All-at-a-glance plot for quick checks (individual plots also available).

Beam 1 (e-)

Beam 2 (e+)

ECM

Pairs

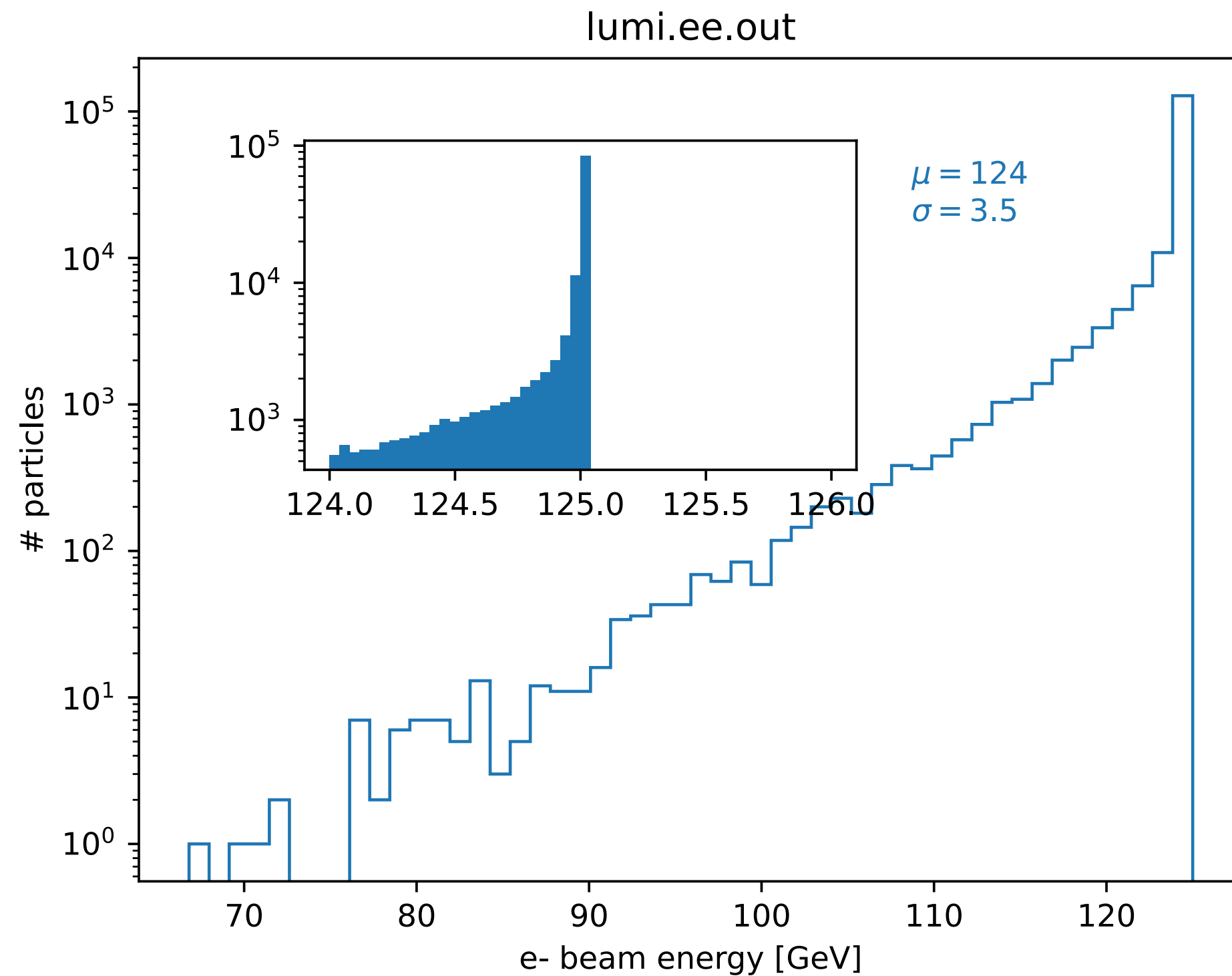


Beam energy spread option

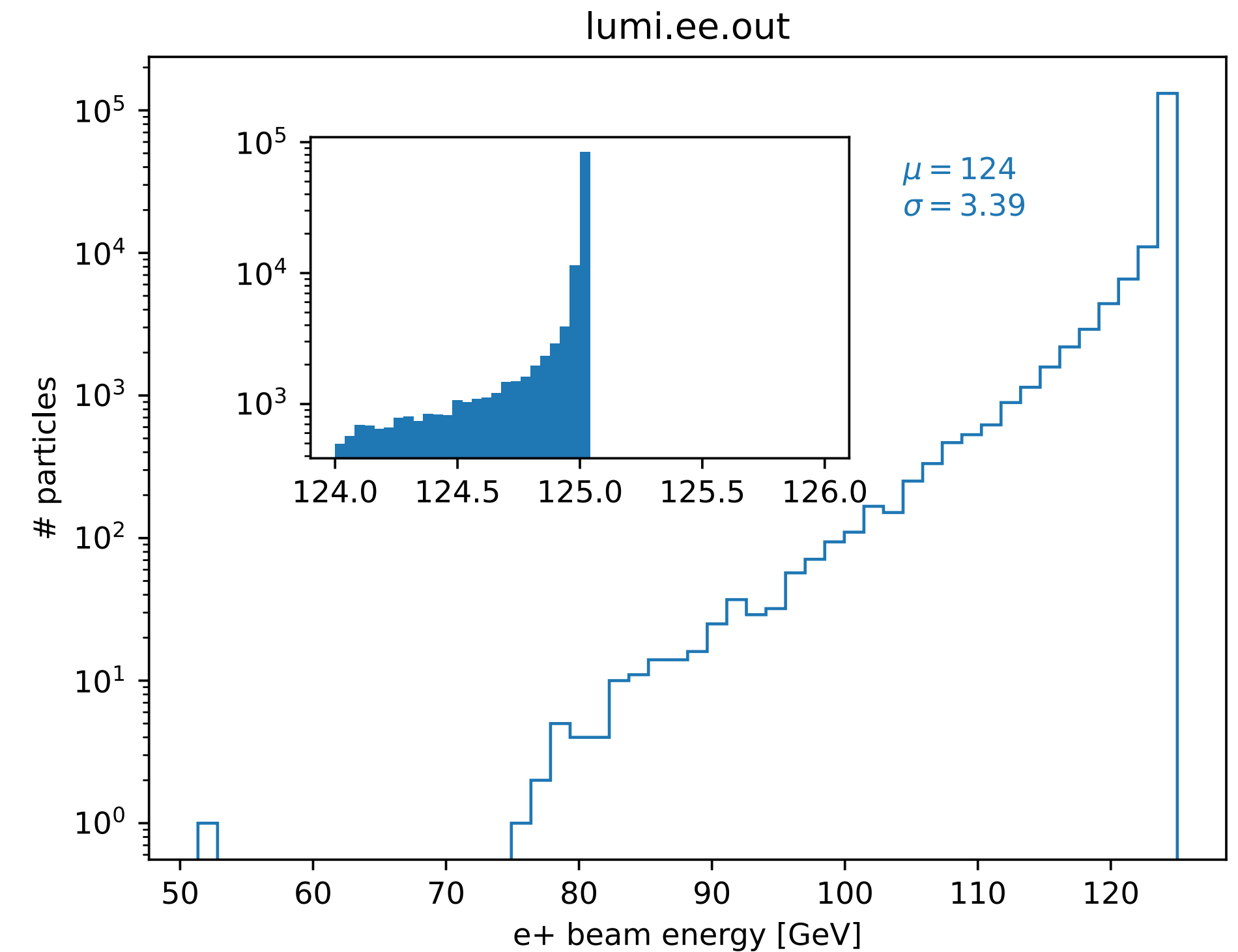
```
energy.1      = 125.;
energy.2      = 125.;
espread.1     = 0.100;
espread.2     = 0.150;
which_espread = 3;
particles.1   = 2.0;
particles.2   = 2.0;
```

- Gaussian beam profile
-

e-



e+

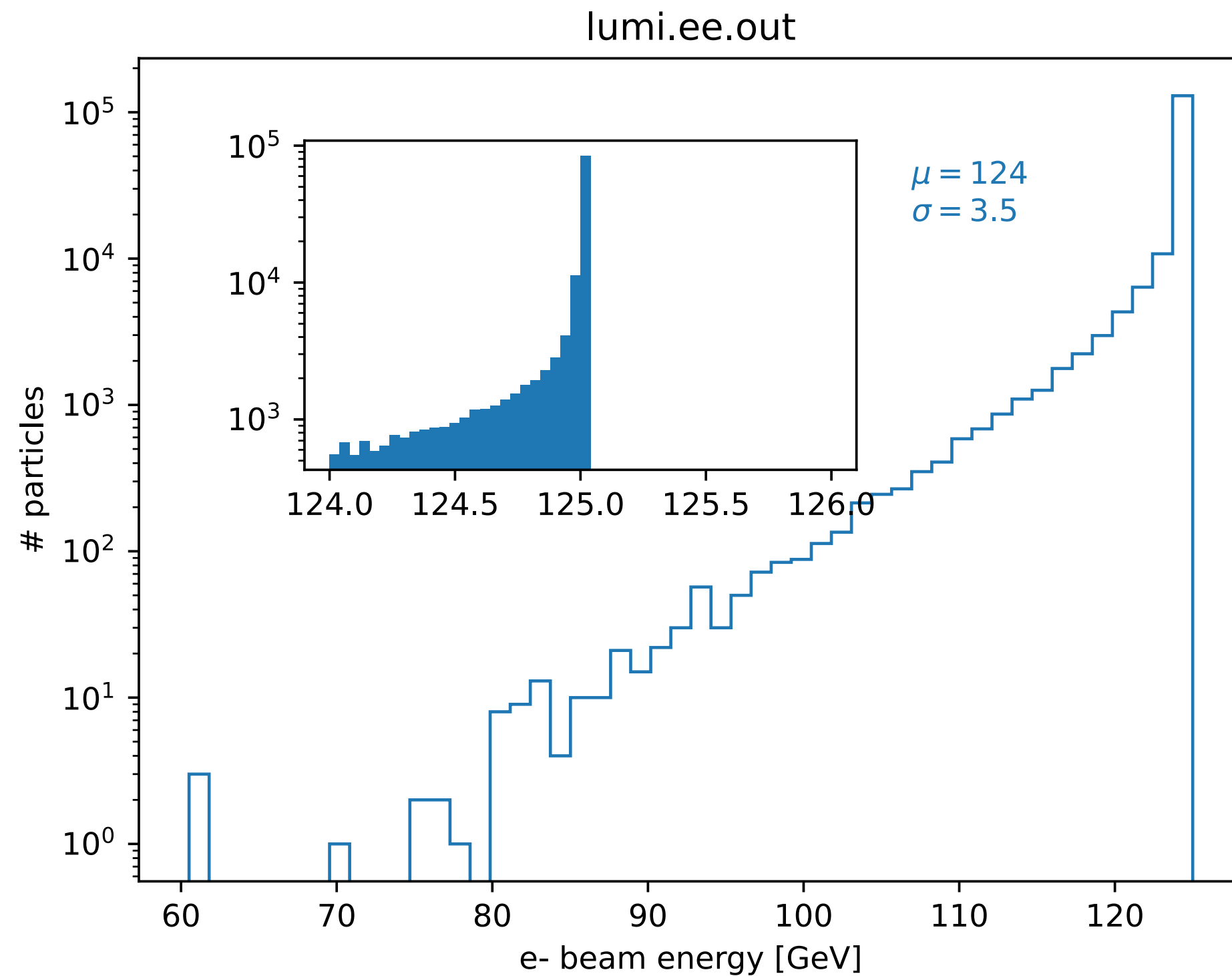


Beam energy spread option

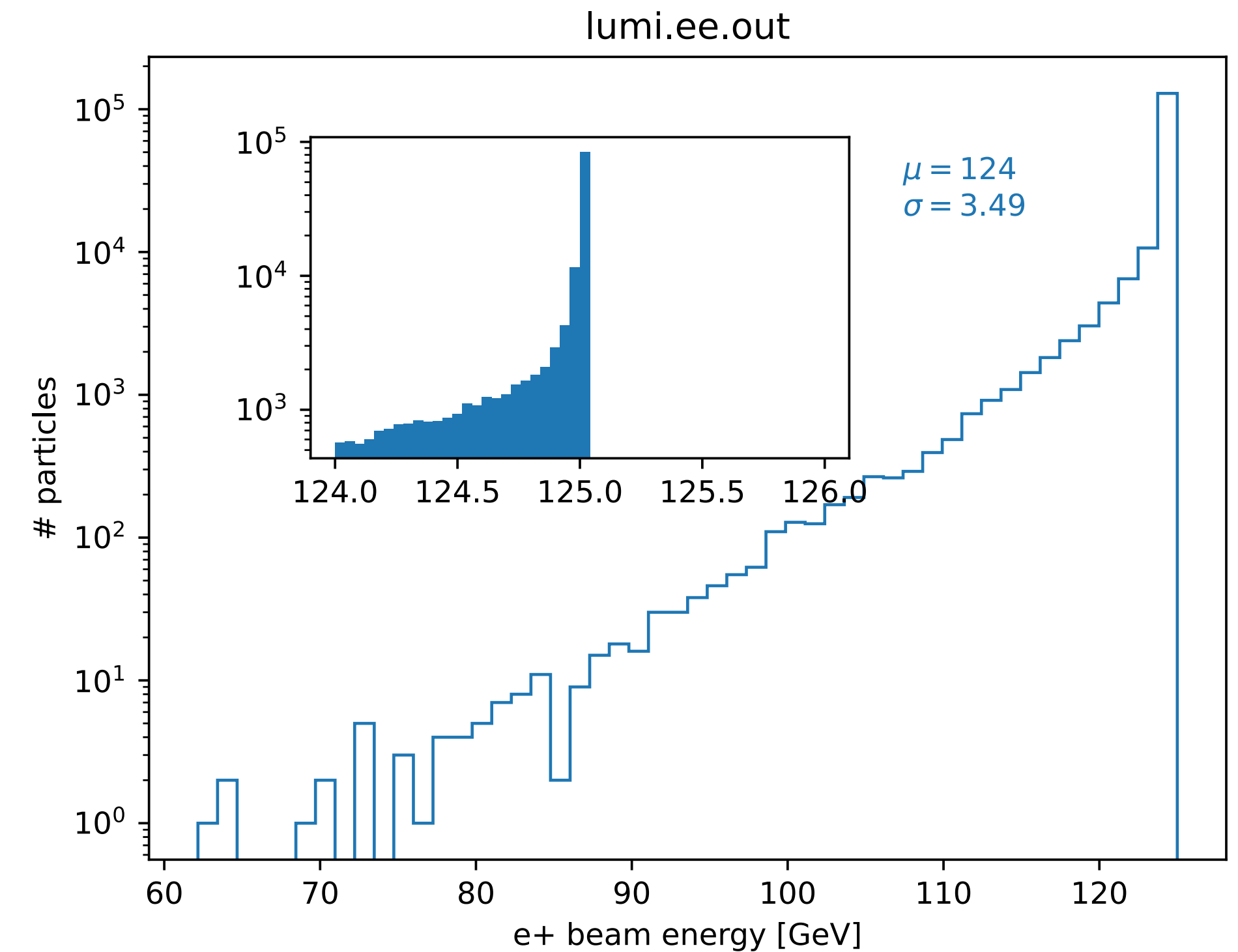
- Uniform beam profile
- Tiny difference => does this change anything effectively?

```
energy.1      = 125.;  
energy.2      = 125.;  
espread.1     = 0.100;  
espread.2     = 0.150;  
which_espread = 1;  
particles.1   = 2.0;  
particles.2   = 2.0;
```

e-



e+



Trying to reproduce the pT/theta plot

- Not yet there...
- Got the code from Mikael, will correct it.

