Spectra before and after collimators. Head-on

E histogram, head-on, low statistics

- entry, #34906
- after first collimator, #34906
- after Y-chicane collimator, #34782

Beam energy lost at 1st collimator 0 %
Beam energy lost at 2nd collimator 4.02 %
200nm (total) vertical offset. Tracked beam.
200nm (total) vertical offset

Total in the beam # 13,822,793

- red: entry, #123493
- green: after first collimator, #123485
- blue: after Y-chicane collimator, #87987
200nm (total) vertical offset

Total in the beam # 13,822,807

entry, #123494
after first collimator, #123481
after Y-chicane collimator, #32288

Version Feb.20
• In the version Feb.20, the first collimator is not doing much

• The collimator in the vertical chicane collimates energies below $E=0.65$ for head on, and below $E=0.6 - 0.75$ for beams with large vertical offset

• The beam energy loss in the vertical chicane collimator is about 4%, i.e. several hundred kW