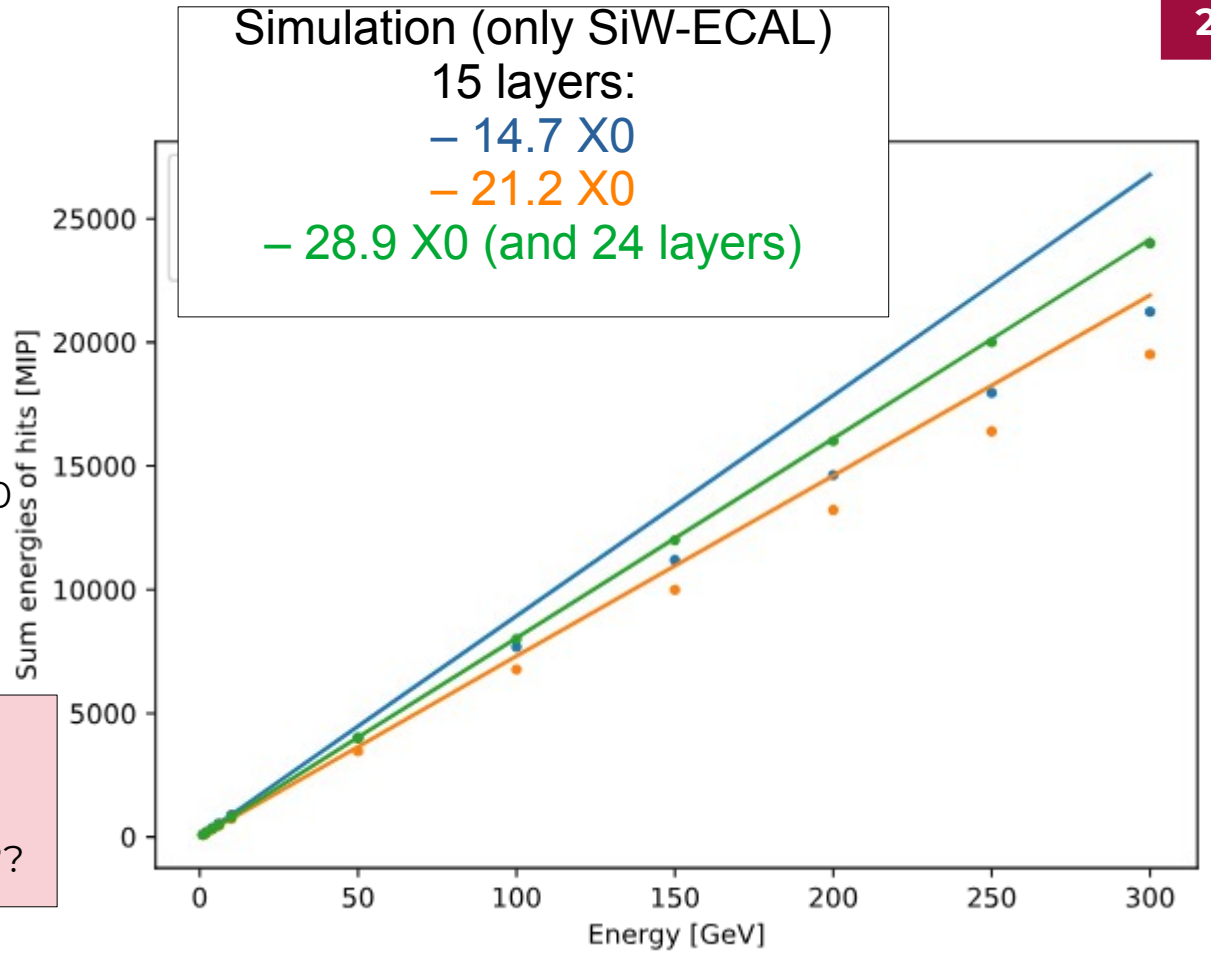
Tungsten content

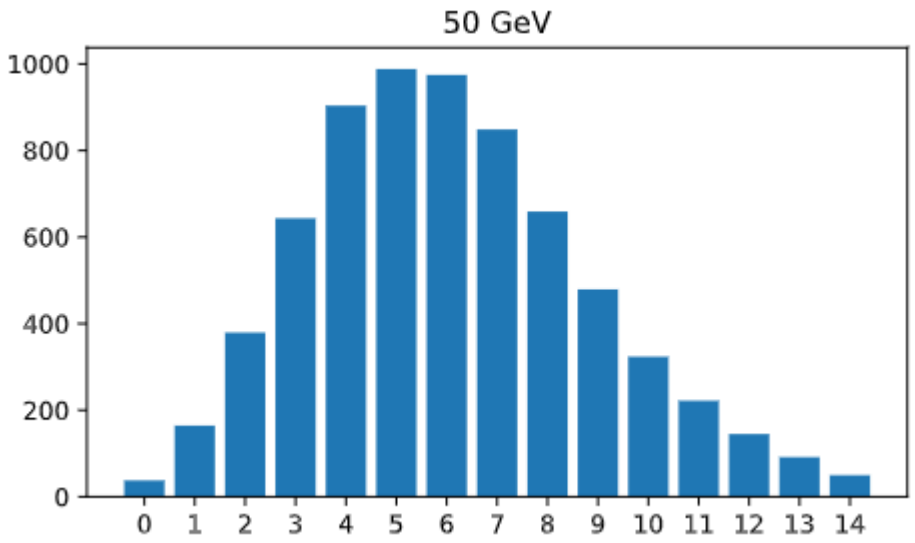
- Blue corresponds to DESY2022
- Orange corresponds to a mix of
  - 7x 4.2mm plates
  - + 8 x5.6mm plates
- Lines are fit to the low energies.
  - We see that the green (24layers, ~30 X0) is linear in all the spectrum
  - The DESY2022 looses linearity well bellow 50GeV
- We need the 5.6mm plates
  - Are they available?
  - If they are… do they fit in the stack??



Layer Sorting

- Assuming the orange configuration (previous slide)
- We know from Stephane that SK2a is linear up to 2000 MIPS
  - With 6pF PA
  - 320um
- If we use 500um
  - Linearity up to 1280MIPs
- If we use 650um
  - Linearity up to 980MIP

Average energy per slab in MIP units

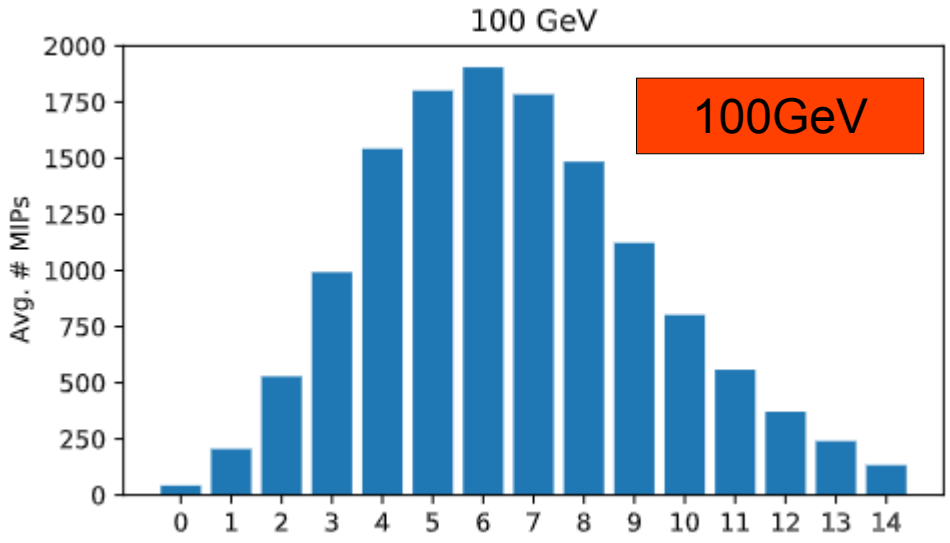


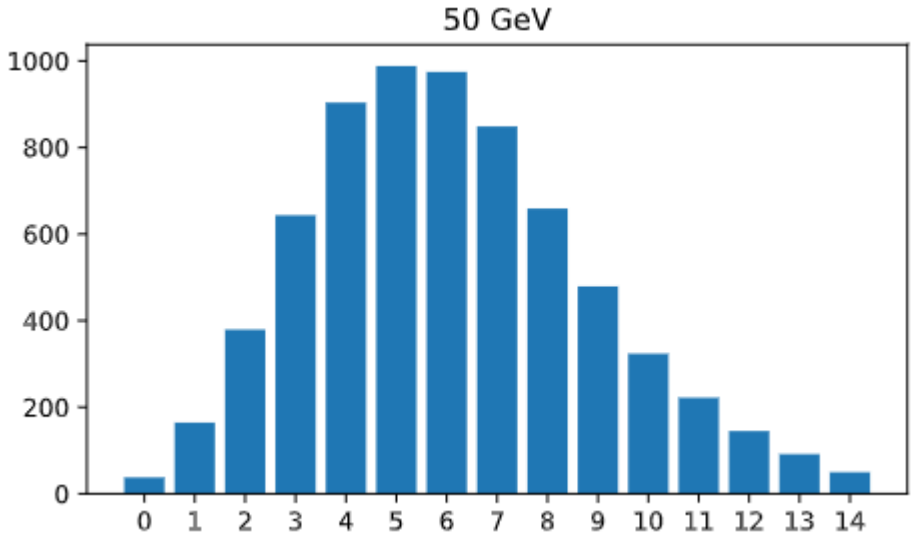
Having the 500 or 650 um slabs in the center compromise our dynamical range and linearity already with 50GeV electrons

(can we have this plot in 2D so we see not only the average)??

Layer Sorting

Average energy per slab in MIP units





(can we have this plot in 2D so we see not only the average)??