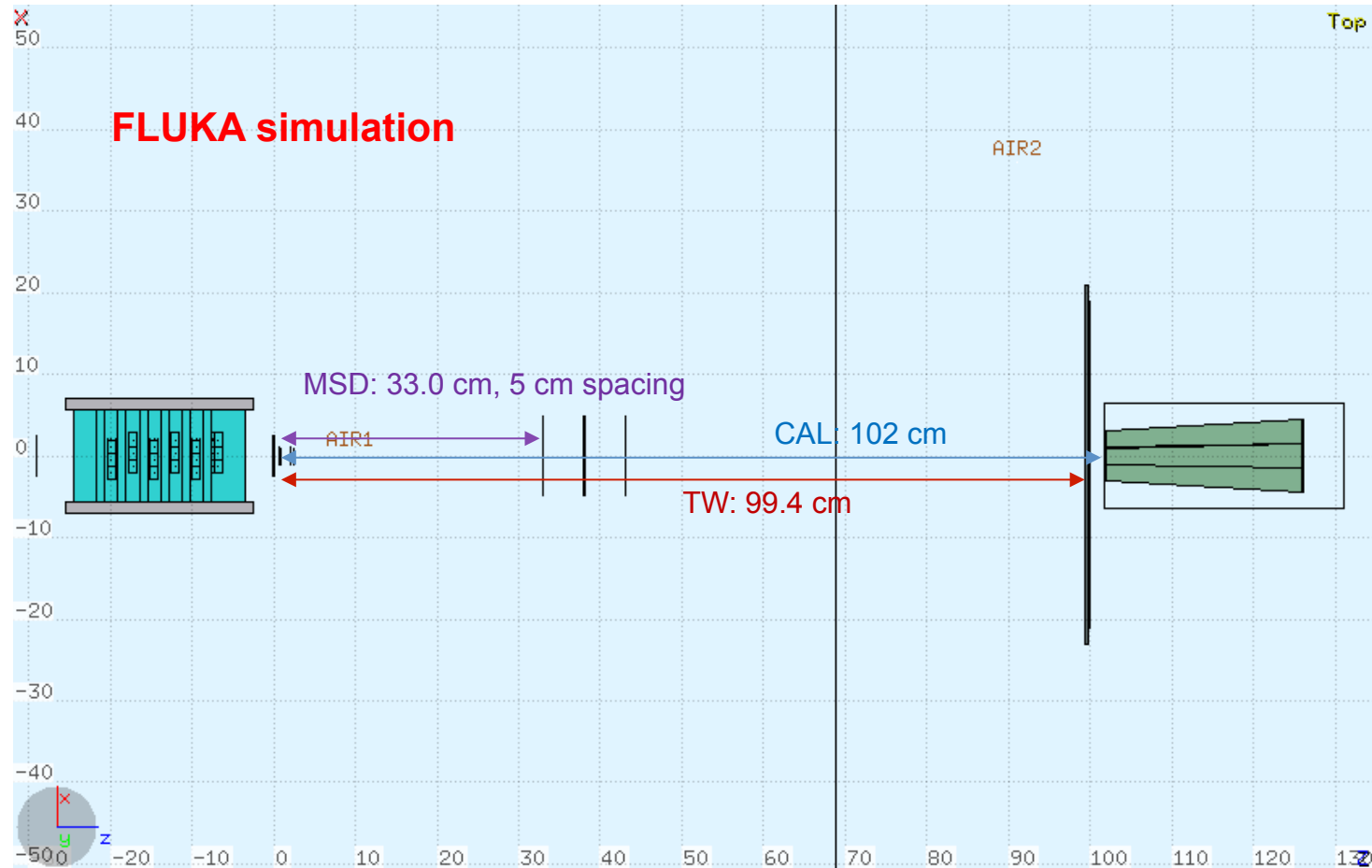




# Further production of simulated data for the CNAO2020 campaign

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# Geometry: campaign CNAO2020



## Update of production presented in Dec. 2020

We have performed new runs re-activating transport of e,m, particles

Energy cuts:

- 1 MeV cut (both prod. and transport) for  $e^+e^-$
- 0.5 MeV for  $\gamma$  (so to include photons from  $e^+e^-$  annihilation).

Delta-ray production with the same 1 MeV cut was activated

# Available files in /gpfs\_data/local/foot/Simulation/CNAO2020

## EVENT\_STRUCT root-files

$^{12}\text{C}$  at 200 MeV/u on C (5 mm  $\rho=1.83$  g/cm<sup>3</sup>):

12C\_C\_200em.root 2  $10^7$  primaries, 284376 events on file

$^{12}\text{C}$  at 200 MeV/u on C<sub>2</sub>H<sub>4</sub> (5 mm  $\rho=0.94$  g/cm<sup>3</sup>):

12C\_C2H4\_200em\_1.root 2  $10^7$  primaries, 197224 events

12C\_C2H4\_200em\_2.root 2  $10^7$  primaries, 197248 events



Files partly tested in Pisa, no significant differences in charged fragment distributions

# Available files in /gpfs\_data/local/foot/Simulation/CNAO2020

## SHOE root-files (CNAO2020 campaign)

$^{12}\text{C}$  at 200 MeV/u on C (5 mm  $\rho=1.83$  g/cm<sup>3</sup>):

12C\_C\_200em\_shoe.root

$^{12}\text{C}$  at 200 MeV/u on C<sub>2</sub>H<sub>4</sub> (5 mm  $\rho=0.94$  g/cm<sup>3</sup>):

12C\_C2H4\_200em\_shoe\_1.root

12C\_C2H4\_200em\_shoe\_2.root