SIMULATION OF LEAD CALORIMETER

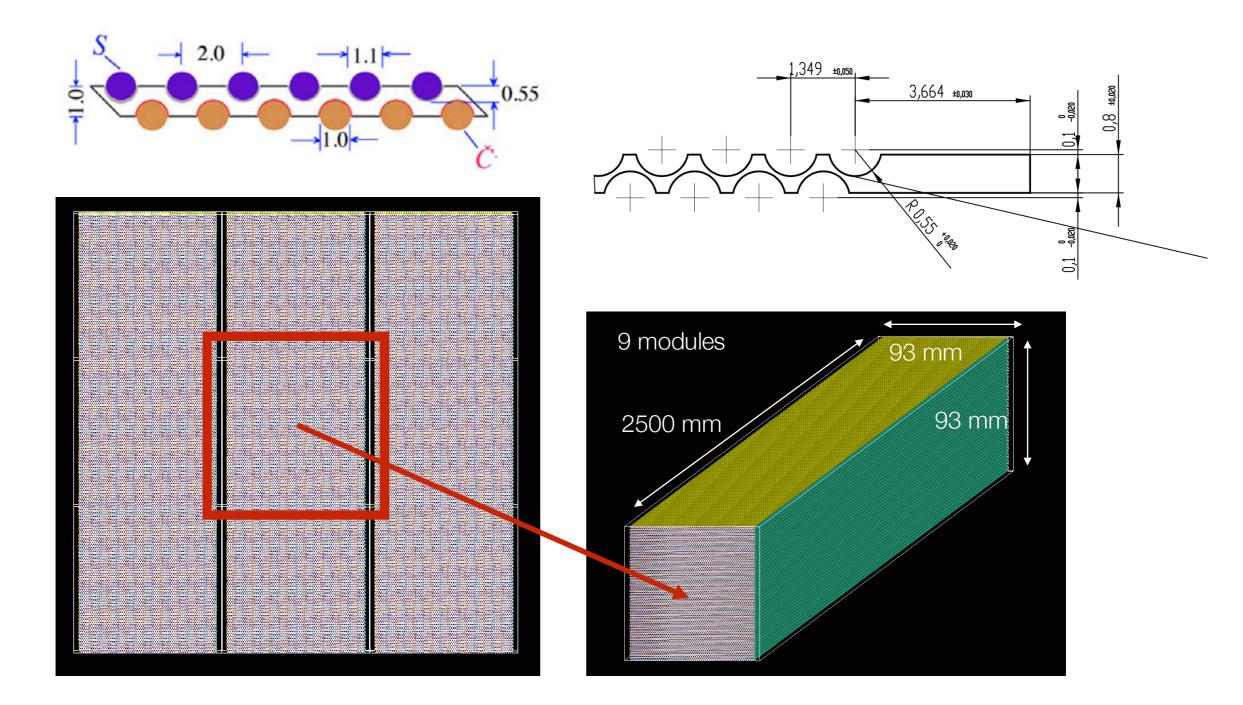
FULL AND FAST SIMULATIONS FOR DUAL READOUT WEEKLY MEETING 07/13/2017

MASSIMILIANO ANTONELLO



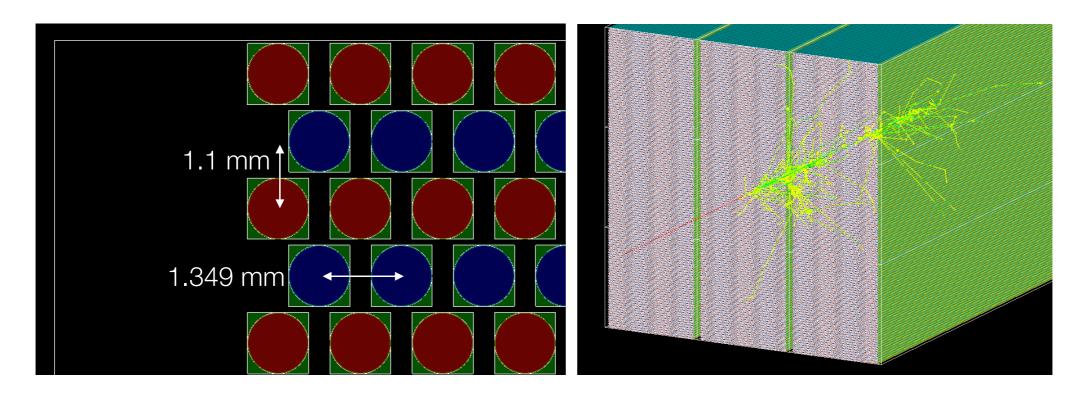
LEAD MODULE GEOMETRY

9 modules of 93 x 93 x 2500 mm³
Alternate Cherenkov and Scintillating layers
Lead plate dimensions: 93 x 1.1 x 2500 mm³



SINGLE MODULE GEOMETRY

# of fibers	# of	# of fibers for	Pitch in x	Total x length	Pitch in y	Total y length
	layers	each layer	(mm)	(mm)	(mm)	(mm)
5376 (2688 S/C)	84 (42 S 42 C)	64	1.349	92.9895	1.1	92.4



Sensible detectors: SiPM already in Lorenzo code but with different PDE.

Already **implemented** in the Lorenzo code.

Next steps:

Find the correct **geometry** —> direct measurement next week @ CERN Run for 20,40,60,80,90,100,200 GeV x 6000 events of e^- and γ