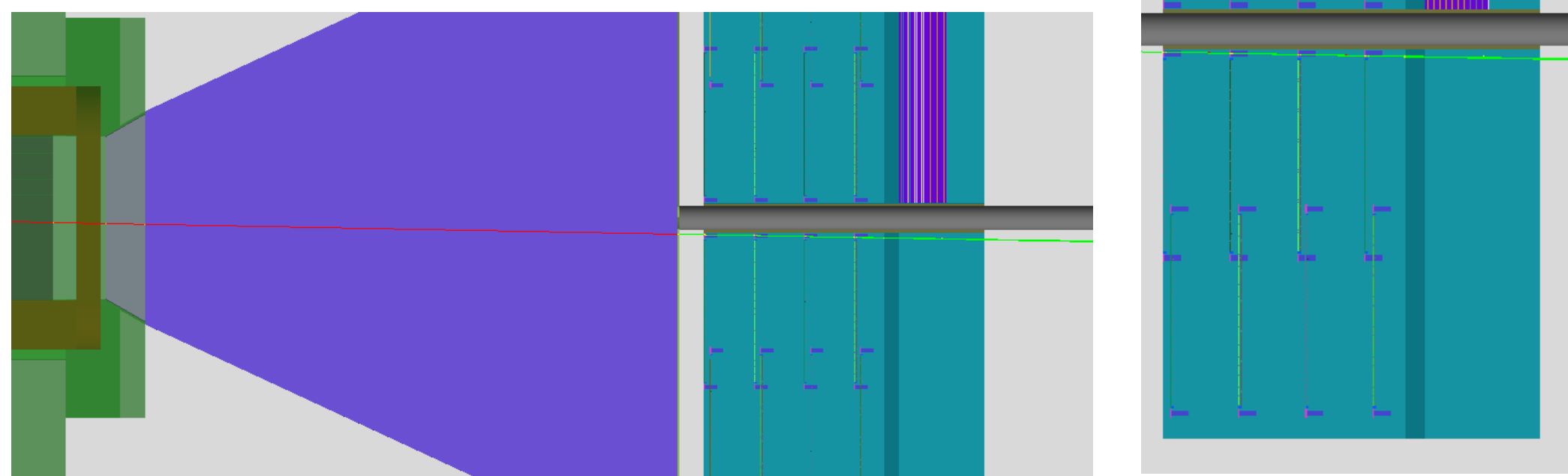


Update on LUXE GEANT4 Geometry.

Position of Scintillator Screen
and Cherenkov Detector in HICS Setup

Oleksandr Borysov

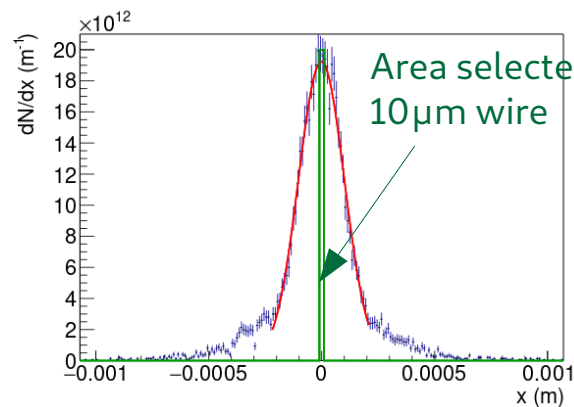
Electron X distribution at a possible location of Cherenkov detector



E (GeV)	X (mm)	dX (mm)
16.5	41.22	0
15	45.35	4.12
14	48.59	7.36
13	52.33	11.10
12	56.69	15.47
11	61.85	20.62
10	68.03	26.81

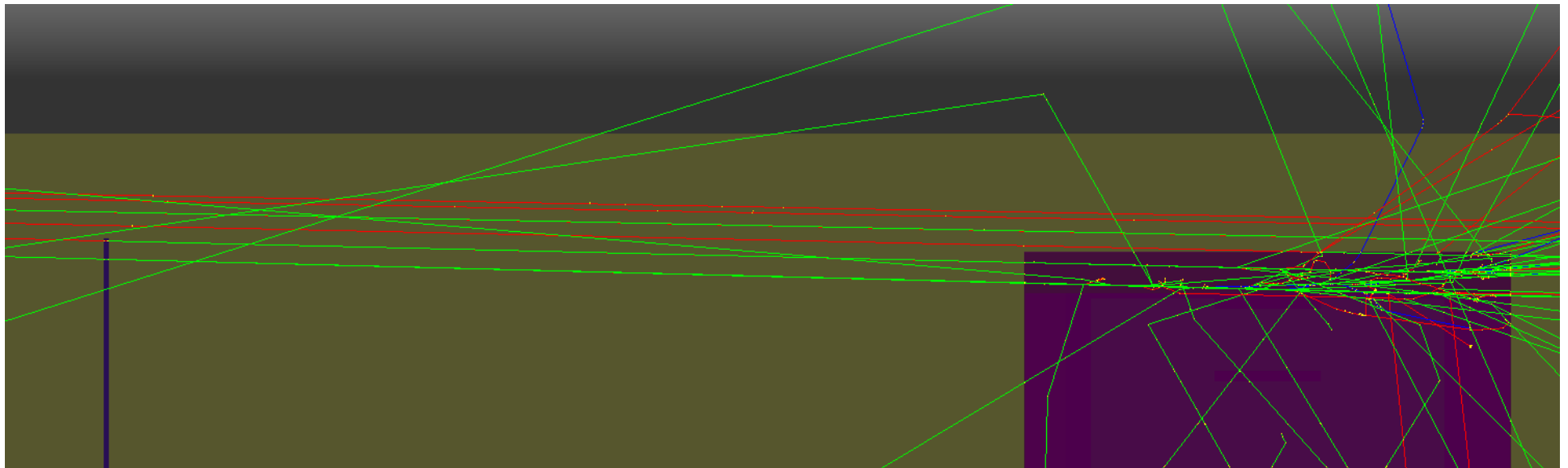
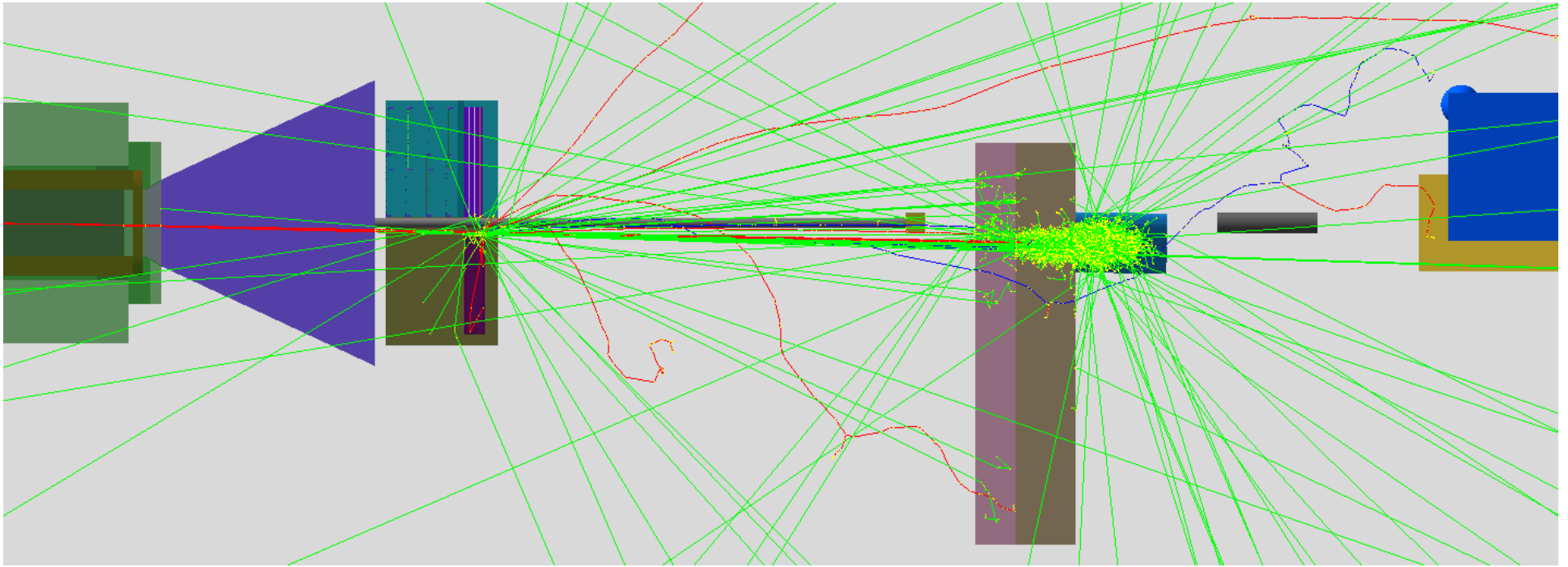
HICSScintillatorXPos = 47 *mm;
 // Displacement at 1.49 m from the 1T magnet (m): 0.0374821

HICSCherenkovXPos = 50 *mm;
 // Displacement at 1.69 m from the 1T magnet (m): 0.041222



Projected 1D photon
 distribution 10m from IP.

Electrons (GeV): 16.5, 16, 15, 14, 13, 12



Electrons (GeV):
16.5, 16, 15, 14,
13, 12

Vacuum chamber



Window (Al)

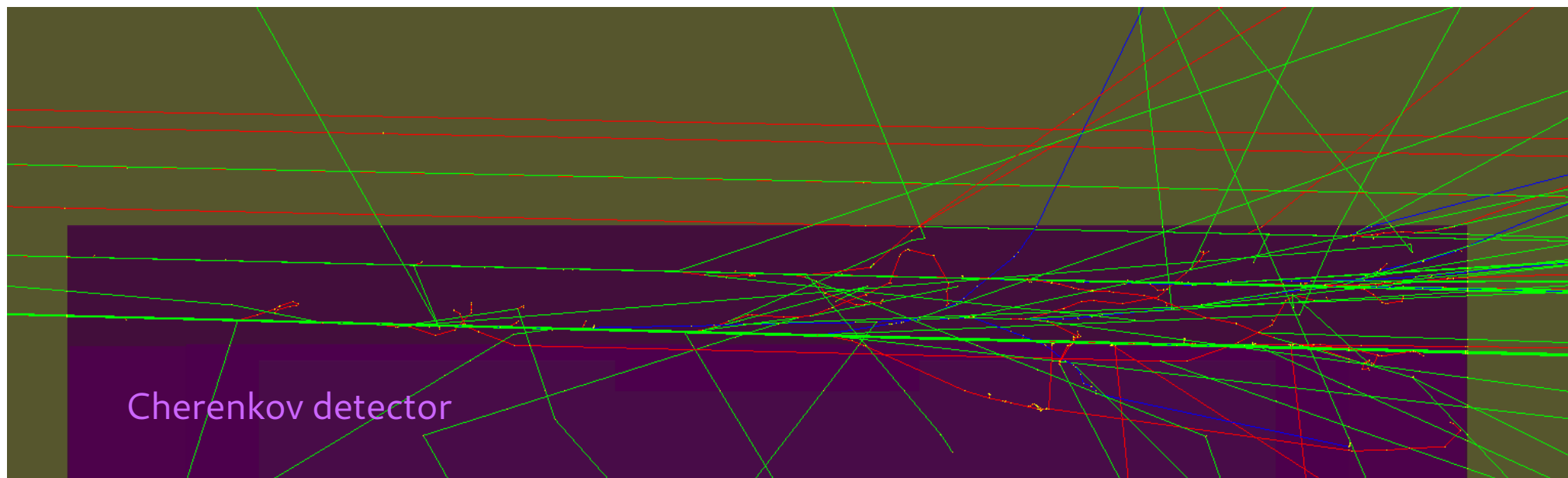


Scintillator
screen

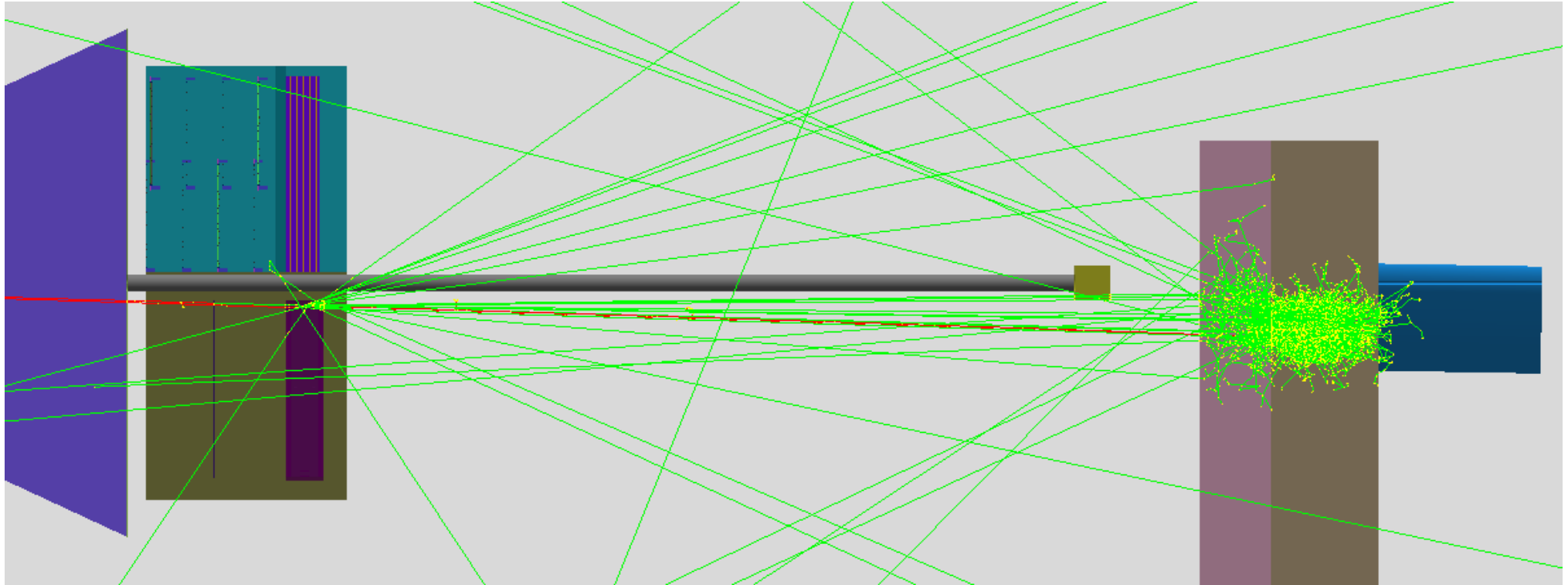


13 GeV

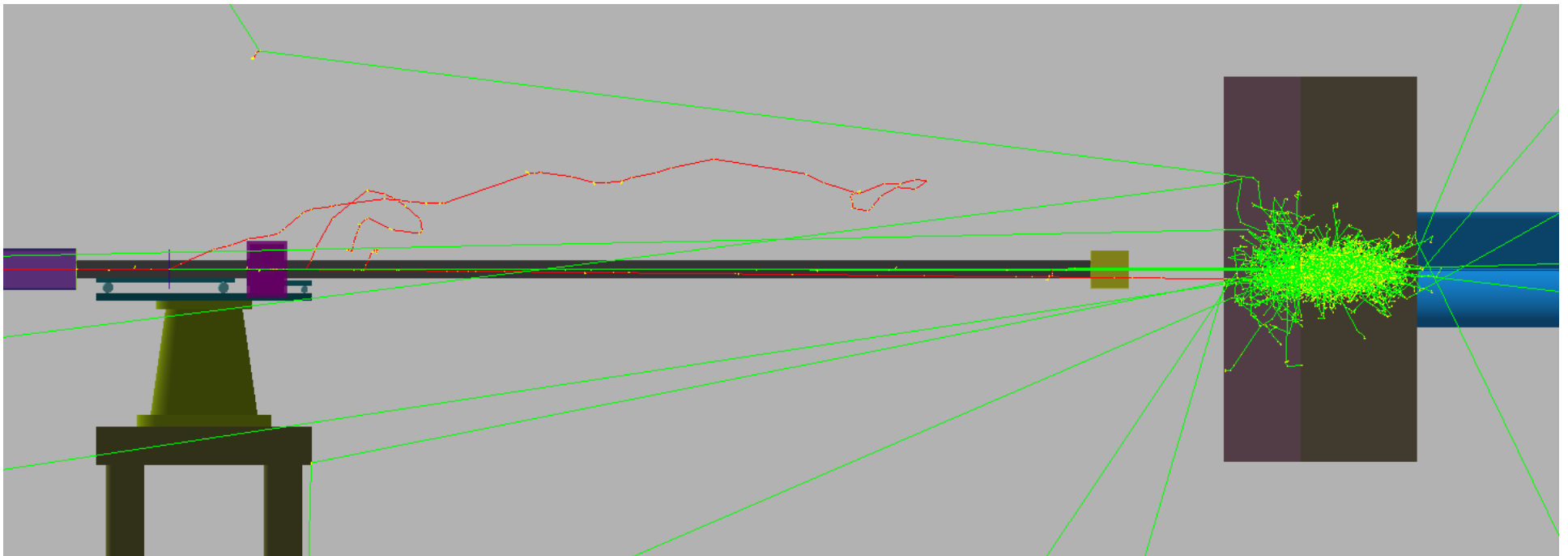
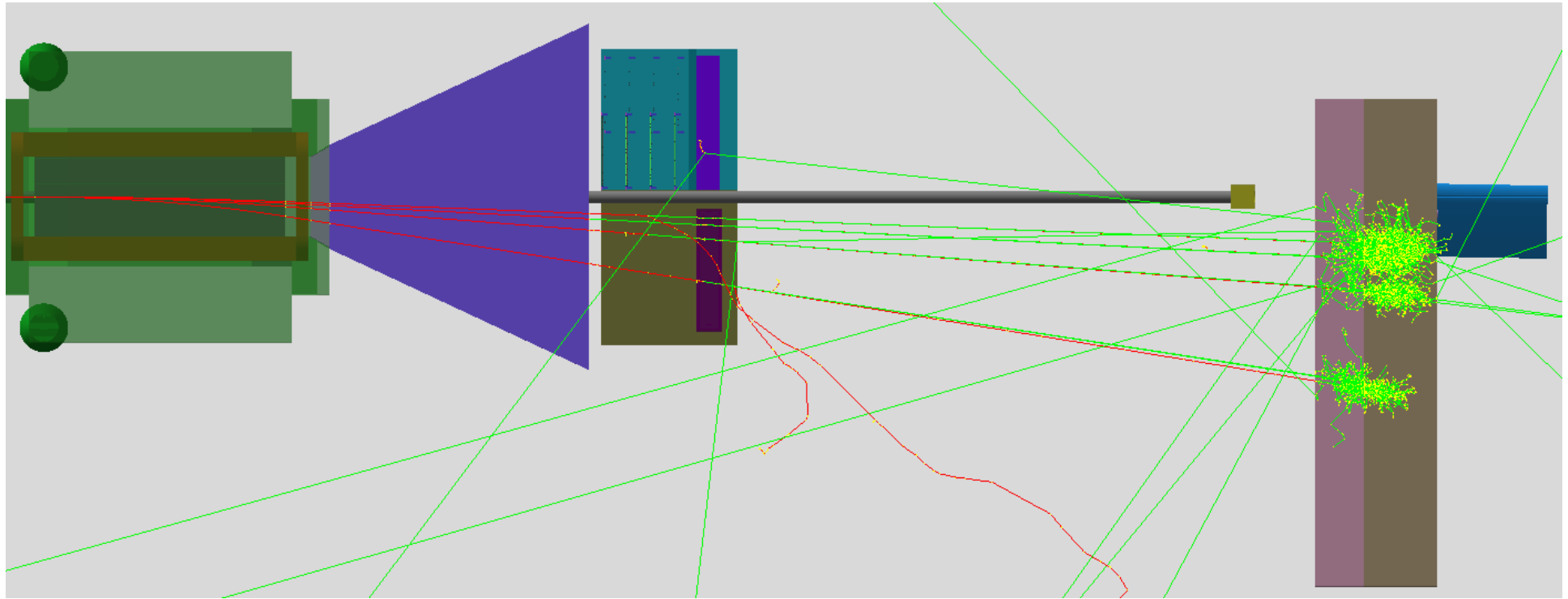
Cherenkov detector



Electrons (GeV): 11, 10



Electrons (GeV): 2, 4, 6, 8



Support

Adapted from Noam's 3D CAD

