Photon flux measurements

Borysova Maryna 22/10/20 LUXE simulation meeting





To measure total flux of photons above some threshold ("MeV-GeV)

the technologies:
a) conversion detector









To estimate above which threshold detector is sensitive

backscattering calorimeter with 48 blocks, running now for the configuration with 8 blocks

Added lower energies 0.0001, 0.1, 0.5 GeV

Energy dependence of deposited energy in Gamma monitor

20 Runs* 100000 photons with mono energies: 1,2,4,6,8,10,12,14,16 and 17.5 GeV



energy scan

To estimate relative resolution on photon flux







* To estimate relative resolution on photon flux of the two technologies as function of number of photons for new MC and updated G4 setup

6

