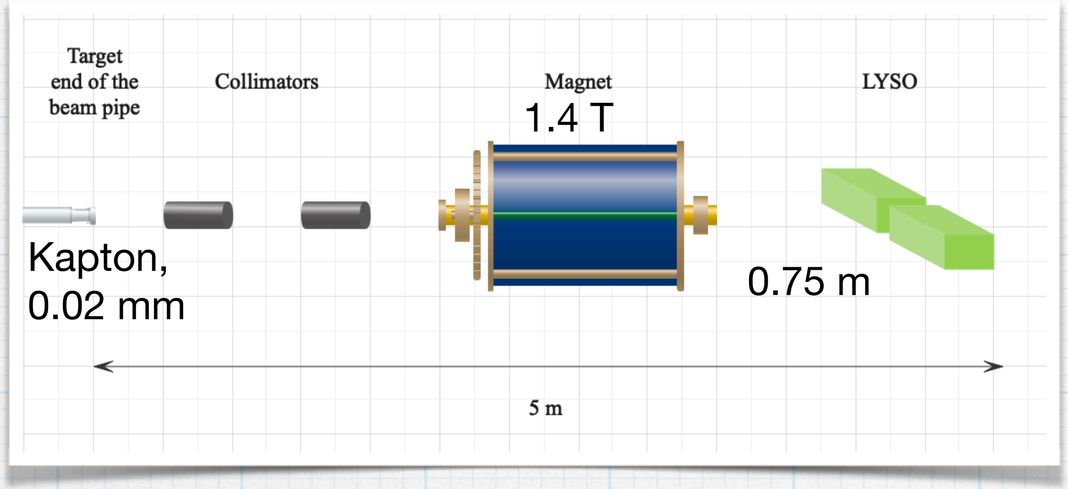
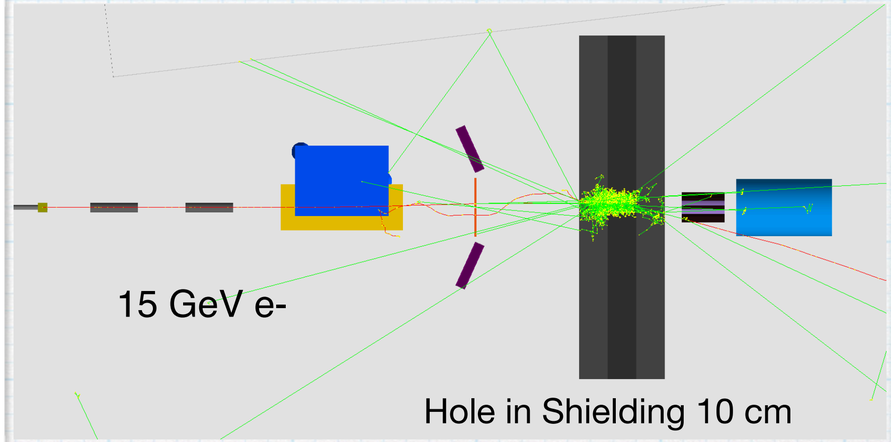
FDS with LYSO calorimeters





Aug 2020 Data Runs, bunch/pulse crossings completed

Experiment Config	$w_0 = 3\mu$m	$w_0 = 3.5\mu$m	$w_0 = 4.0\mu$m	$w_0 = 4.5\mu$m	$w_0 = 5.0\mu$m	$w_0 = 20.0\mu$m	$w_0 = 50.0\mu$m	$w_0 = 100.0\mu$m
peak SQED ξ	5.12	4.44	3.88	3.45	3.1	0.78	0.32	0.15
JETI40 e-laser 16.5 GeV	939	951	946	949	938	193	200	200
JETI40 e-laser 17.5 GeV	182	121	115	125	69			

- The scintillators are modelled as a 15x5x2 cm (x:y:z) layer of lyso material
- The crystal (bin) size of the scintillators are 2 x 1 mm (finer segmentation in x; the deflection direction) giving 25 x 300 bins.

LYSO $(Lu_{1.8}Y_{0.2}SiO_5)$

All studies were performed with 100 BX at the laser intensity xi = 0.3 for 16.5 GeV electron beam

True electron/photon spectra

1000 BX at the laser intensity xi = 0.3 for 16.5 GeV electron beam