

FLUORESCENT BEAM POSITION MONITOR*

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This work examines a fluorescent monitor of the position and intensity of a synchrotron radiation beam. The beam position monitor is designed to track the relative movements of the synchrotron radiation beam and changes in its intensity.

Figure 1 shows the 3D model. Figure 2 shows a simulation of the distribution of photons recorded using a beam monitor at a radiation energy of 18 keV.

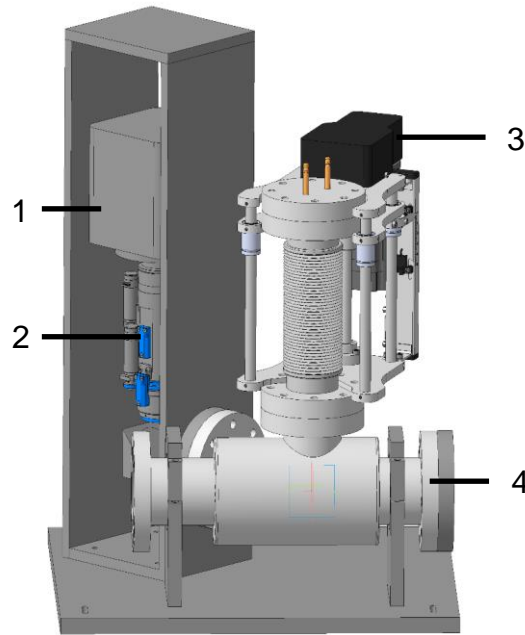


Fig.1. CMOS camera, 2 – lens, 3 – scintillator input/output unit from the axis of the synchrotron radiation beam, 4 – vacuum chamber.

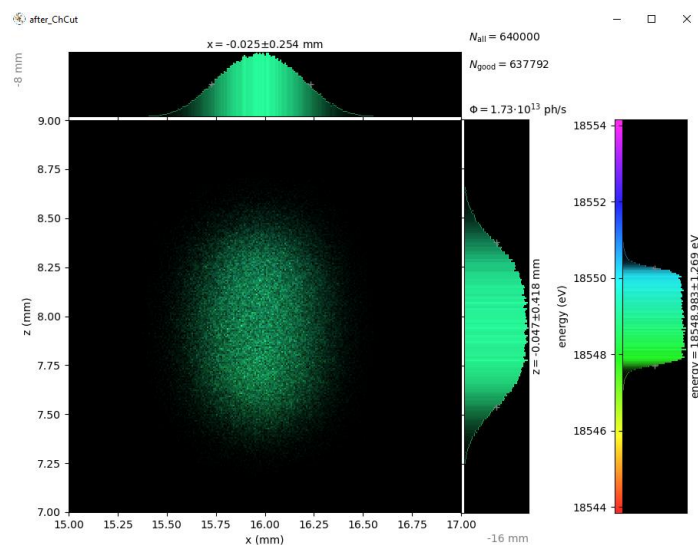


Fig.2. photon distributions at energy 18 keV.

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