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Ansto



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New Detectors for IMBL

IMBL Users have a range of demands for x-ray imaging detectors which cannot be met by one single instrument. For the past four years of operation we have kept a suite of six detectors to match the foreseeable needs. As the beamline has developed in capability over time, the demands on detection have also changed. Furthermore, some of the original detectors are now getting to the end of their useful life. A recent review has highlighted the need for new and altered specifications. As a result two new detectors have been added to the IMBL imaging instrument list. One is a large field of view high aspect ratio device, designed to make better use of the wide beams in our hutch 3B. The other is a smaller field-of view photon counting detector aimed at ultra-low dose imaging. This second device also has some spectroscopic capability. Both have been tested on the beamline and are now being integrated into the IMBL control systems. Important aspects of the detectors and some test results are shown here.

Keywords or phrases (comma separated)

X-ray imaging, Instrumentation, Detectors

Are you a student?

No

Do you wish to take part in</br>the Student Poster Slam?

No

Are you an ECR? (<5 yrs</br>since PhD/Masters)

No

What is your gender?

Male

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