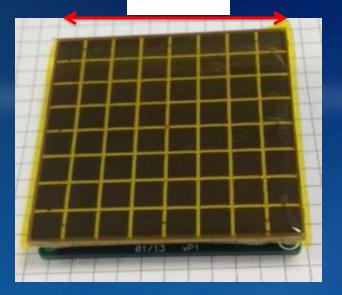
ArraySB-8 and LaBr3

~57mm







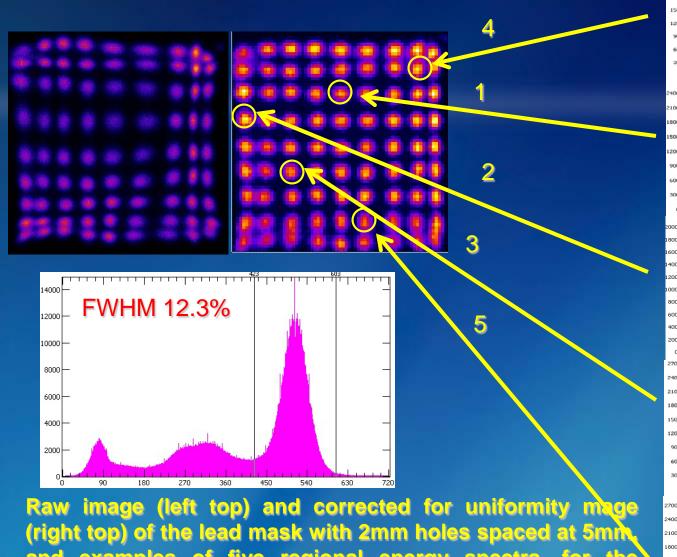
Parameter	Value <sup>a</sup>
Number of pixels	8x8
Pixel active area	6x6mm²
PCB size	56.6x56.6mm²
Pixel pitch	7mm
No. of microcells per pixel	18980
Operating voltage (V <sub>op</sub> )	28.9V
Gain <sup>b</sup>	2.4x10 <sup>6</sup>
Pixel dark current	11μΑ
Microcell recovery time	90ns
Temperature dependence of V <sub>br</sub> <sup>b</sup>	20mV/°C

measured at V<sub>op</sub> and 20°C measured on a MicroSL-10035

The Array8 module from SensL equipped with row-and-column 16ch readout from AiT Instruments, and an experimental ~51x51x6mm LaBr3 crystal from Saint Gobain. At right the 2mm thick lead mask used in the tests with a pattern of 2mm holes on a 5mm pitch.



## ArraySB-8 LaBr3 continuous crystal



Raw image (left top) and corrected for uniformity mage (right top) of the lead mask with 2mm holes spaced at 5mm, and examples of five regional energy spectra, for the 51x51x6mm thick LaBr3 plate scintillator, and a Tc-99m140 keV gamma source. Above: normalized energy spectrum fross the whole surface. All FWHM values are @ 140 keV.

