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## Neutron Imaging Applications on DINGO at OPAL

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The new neutron radiography / tomography / imaging instrument DINGO is operational since October 2014 to support research at ANSTO. It is designed for a broad national and international scientific user community and for routine quality control for defence, industrial, cultural heritage and archaeology applications. In the field of industrial application it provides a useful tool for studying cracking and defects in concrete or other structural material. Since being operational we gathered experience in various scientific areas, with industrial applications and commercial customers demanding beam time on DINGO. The measured flux (using gold foil) for an L/D of approximately 500 at HB-2 is  $5.3 \times 10^{-4}$  [n/cm<sup>2</sup>s], which is in a similar range to other facilities. A special feature of DINGO is the in-pile collimator position in front of the main shutter at HB-2. The collimator offers two pinholes with a possible L/D of 500 and 1000. A secondary collimator separates the two beams by blocking one and positions another aperture for the other beam. The neutron beam size can be adjusted to the sample size from 50 x 50 mm to 200 x 200 mm<sup>2</sup> with a resulting pixel size from 27µm to ~100µm. The whole instrument operates in two different positions, one for high resolution and one for high speed. We would like to present our first experience with scientific proposals and commercial customers with industrial applications.