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## Imaging with neutrons and X-rays at Necsa- an overview

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Necsa's mandate to exploit the usage of radiation and its benefit to mankind is clearly demonstrated by the usage of penetrating radiation (neutrons, X-rays and Gamma rays) in the art of imaging - radiography and tomography. Imaging with neutron radiation at Necsa becomes digital in 1995 with a neutron tomography upgrade in 2003. X-ray tomography becomes available in 2005 but with 1mm focal spot size while micro-focus X-rays was introduced in 2011. Since then, many successes in the art of tomography imaging were recorded. This talk will highlight some successes, summarizes the current usage of the facilities and explain the future prospects to develop and expand the analytic service to the HEI's for post graduate students and researchers to experience the full benefit in utilizing the imaging analytic facilities at Necsa.

**Submit a paper<br>for peer review<br>(SA Journal of Science)?<br>(Yes / No / Maybe)**

YES

**Primary author:** Mr DE BEER, Frikkie (Necsa)

**Presenter:** Mr DE BEER, Frikkie (Necsa)

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