

Channeling 2016



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The ThomX X-ray source

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The compact Compton ring ThomX is now under construction at LAL/Orsay. This machine will provide a quasi-monochromatic X-ray beam of multi keV energy. However major issues are expected in beam dynamics and on the operation of the laser system.

In this presentation, the machine design, including the optical and laser systems will be reviewed. Recent progress in the optical system performances will be described. Some results obtained with an experimental setup at ATF/KEK will be given. Finally a description of the foreseen imaging and biological applications will also be given.

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