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Experience with a high power cyclotron for radioisotope production

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The Arronax Public Interest Group (GIP) is a facility that hosts a multi-particle cyclotron and several laboratories, dedicated mainly to radio-isotopes productions and also to in-beam experiments for radiochemistry, radiobiology and physics.

The multi-particle cyclotron has been running for these productions and experiments since the end of 2010. Its use has increased over the years reaching more than 4000 hours RF-time in 2015. This required extension of the operation range of the machine over several orders in intensity from 1 pA up to 350 uA for protons on target at several particle energies. The multi-particle capability of the machine is also abundantly used for radionuclide production and radiobiology.

The Arronax facility as well as the cyclotron and its use will be detailed with the scope of radio-isotope production at high intensity. Also the on-going and needed adaptation will be presented.

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If a proceedings is prepared,
</br> will you submit a contribution?

no

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