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For Intense Proton Beam Production with Compact Ion Sources: The ALISES Ion Source Family Developed at CEA Saclay

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The production of intense proton beams in CEA Saclay started in the 90's with the development of the SILHI source to inject the IPHI accelerator. This ECR ion source is still in operation nowadays. ECR plasma is well-known heating process and plasma chamber internal dimensions were investigated in order to reduce size and maintenance time. In 2012 R&D investigations on those simple plasma chamber parameters were started with the design of the first ALISES ion source that will give birth to a new source family that still in progress today. This paper will summarize the different steps of this development.

Funding Agency

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