OPERATIONS OF KVI AECRIS AT AGOR SUPERCONDUCTING CYCLOTRON FACILITY

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Abstract

We present the status of ECRIS operation in KVI. Our work is mainly focused on improving the beam intensity and quality of highly charged ions for injection into the AGOR cyclotron. The main request was for $Ne^{6}+$ ions to produce short-lived 21Na for fundamental physics studies. Typical beam intensities are 350 eμA. Several other ion beams were produced, e.g. $C^{2}+$, $C^{4}+$, $C^{6}+$ and $F^{4}+$. Overall performance of the source met the user requirements. We recently started again with Pb ion production, resulting in 25 eμA of $Pb^{2}7+$. Source output was gradually optimized, mainly by installing stainless steel screens at the injection and extraction sides of the ion source. A two-frequency heating system (14.5 + 12.5 GHz) has been installed and the first results will be presented.

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