



Contribution ID: 209

Type: **Poster presentation**

Al and W Ion Beams from MEVVA Ion Source Material Radiation Resistance

Wednesday 18 October 2017 18:45 (15 minutes)

In NRC «Kurchatov institute»-ITEP the research of the material radiation resistance by accelerated metal ion beams is under progress on RFQ linac Heavy Ion Prototype (HIPr). One of the ongoing material science projects aims at the analysis of the radiation resistance of tungsten that will be used in future fusion facilities like DEMO and ITER. To provide irradiation experiments, MEVVA ion source was equipped with Al and W cathodes. This paper describes the results of time-of-flight mass-charge spectrums measurements for Al and W ion beams generated by MEVVA and results of this ion beams acceleration.

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Session Classification: Poster Session 3

Track Classification: Beam extraction, transport, and diagnostics