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Linear heavy ion accelerators for low-energy physics

The high intensity heavy ion linac is an attractive instrument for the nuclear investigation. The high energy linac can be effectively used for the rare isotope production (for example – FRIB facility in MSU, USA). The low energy linac (~ 7 MeV/nucleon) can be used for multi-nucleon transfer reactions investigation. In particular, the reactions study is important for understanding the so-called 3rd peak of the distributions of the astrophysical p-process. The project of the room temperature heavy ion cw-linac is based on the technology which is under development in framework of compact accelerator driven neutron source DARIA setup. The talk presents the linac structure as well as the current status of the cw RFQ and DTL development in framework of DARIA project.

Notes

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