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Estimation of production rates and secondary beam intensities

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Summary of the work, performed as a part of the project Eurisol Design Study, will be presented and possibilities for further activities at the HIE-ISOLDE will be discussed. As a part of the Eurisol Design Study, dedicated task Beam Intensity Calculation focused on possibilities to predict achievable secondary beam intensities at the ISOL facility using the spallation reaction. Model calculations were performed and the results were compared to available data. Successful calculations allow to estimate production of exotic nuclei in the target and thus offer possibilities for study of the mechanism of the transport of such nuclei out of the target. Possibilities to continue this work in systematic way at ISOLDE will be discussed.

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