## Abstract Submitted for the DNP11 Meeting of The American Physical Society

One and two-neutron transfer reactions at REX-ISOLDE<sup>1</sup> KATHRIN WIMMER, NSCL - MSU, T-REX COLLABORATION — In this contribution we will report on one and two neutron transfer reaction experiments in inverse kinematics at the REX-ISOLDE facility (CERN). Light charged target-like reaction products were detected and identified by the T-REX particle detector [1] while coincident  $\gamma$ -rays were detected by the MINIBALL Germanium detector array. Recent results on (d,p) as well as (t,p) reactions with radioactive beams ranging from 11Be to 78Zn isotopes will be presented. The two-neutron transfer reactions involved for the first time the use of a radioactive tritium target in combination with a radioactive heavy ion beam [2].

- [1] V. Bildstein et al., Prog. Part. Nucl. Phys. 59 (2007) 386.
- [2] K. Wimmer et al., Phys. Rev. Lett. 105 (2010) 252501.

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