

## Super-FRS contributions from Finland

*Wednesday 23 May 2018 15:20 (20 minutes)*

The Super-FRS separator-spectrometer to be built at FAIR will be able to unambiguously separate and identify all beams from p to U. The identification will be done using the  $\Delta E - B\rho - TOF$  method. Finland will provide detectors that will be used to provide data for beam identification in *event-by-event* mode. The tracking detectors will be constructed to provide the  $B\rho$  information at high rate. Energy-loss  $\Delta E$  detectors, that will provide the  $Z$  identification, will also be delivered by Finland. Together with the time-of-flight (TOF) information, the clean selection of rare isotopes can be made. In addition to beam diagnostics, beam profile detectors, detector infrastructure and radiation protection of the target (also contributions from Finland) will be discussed. In addition, preliminary results from latest detector tests will be shown.

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**Session Classification:** session 7