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Renewal concept TOFTOF

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As a cold time-of-flight spectrometer, TOFTOF's impacts are felt across scientific areas including: biophysics, materials science; fundamental hard and soft condensed matter physics, chemistry and biology. The impact is not only as a stand alone instrument but also as part of the suite of neutron spectrometers (e.g. SPHERES and J-NSE PHOENIX) addressing scientific questions which require perspectives on molecular dynamics over broad overlapping timescales and length-scales. The upgrade addresses both the competitiveness both of the instrument but also more broadly the competitiveness of the MLZ around existing scientific areas, and the aspirational grand challenges for the MLZ and its user community. Specifically we seek to enhance the sample area, angular resolution and number of neutrons analyzed by increasing the flux at the sample, decreasing background signal and increasing solid angle coverage and angular resolution. This enhanced instrument capability will be complemented by a number of new sample environment capabilities under development leading to new applications for neutron spectroscopy.

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