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An engineering diffractometer for the High Brilliance neutron Source (HBS)

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The HBS is a high brilliance accelerator driven neutron source currently in the design process. It provides different target stations that follow the same duty cycle but offer different frequencies and pulse length. Cold and thermal moderators are used to adjust the neutron spectrum. The target stations with its moderators thus allow choosing the parameters best fitting to an instrument or instrument class. We here present the design and expected performance of an engineering diffractometer for one of the target stations at the HBS. While optimized for straining scanning measurements the design of the instrument will allow further the analysis of textures and the investigations of phase transitions.

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