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Combing polarized neutrons with time-of-flight spectroscopy: recent instrument upgrades and applications on the studies of quantum materials at DNS

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Major instrument upgrades at DNS, including a new Fe/Si supermirror based focusing polarizing bender, and a 300 Hz disc chopper system, have been accomplished recently. This has opened up possibilities to combine polarized neutrons with time-of-flight spectroscopy for the studies of exotic magnetic order and excitations in emergent quantum materials. In this poster, an overview about those upgrades and some selected recent examples will be given

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