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Magnetic fluctuations in the iron-based superconductors

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One of the most plausible scenarios for the mechanism of the unconventional superconductivity is the magnetically-mediated Cooper pair. The iron-based superconductors are much known as an unconventional type, thus a number of inelastic neutron scattering studies were reported to evidence a strong relationship between the spin excitations and superconductivity. Here we present recent progress on spin excitation studies of the iron-based superconductors mainly performed on the thermal neutron three axes spectrometer PUMA at MLZ.

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