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Low energy excess in MAGNETO R&D Data

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MAGNETO is developing dark matter and neutrino detectors using magnetic quantum sensors with sub-microsecond timing resolution for phonon pulse shape discrimination in eV region. Such fast timing resolution improves separation of electron recoil background, microphonic noise, and thermal noises due to events from substrates and surrounding materials. I will discuss findings from MAGNETO R&D data regarding the low energy excess phenomenon.

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