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Condensed matter physics studies with muons at TRIUMF

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For over 40 years spin polarized muons at TRIUMF have been used as a magnetic probe of solids via the technique of muon spin rotation/relaxation/resonance (micro;SR). With the increasing need to understand more complex materials, sophisticated scientific tools like micro;SR are necessary. Through the years innovative advances in instrumentation and refurbishment of muon beam lines have expanded micro;SR applications. Today micro;SR at TRIUMF is well suited to research of many important topics in condensed matter physics. In this talk, some recent micro;SR studies of quantum materials and the immediate future of micro;SR as a tool in condensed matter physics will be discussed.

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