
UPDATE: Centre for Material and Molecular Science - Iain McKenzie

The CMMS group is currently operating two μ SR beamlines, M15 and M20. μ SR experiments for the period from May 9th to September 4th, 2018 have already been scheduled. μ SR experiments in the remainder of the [summer schedule](#) (Schedule 134) and all of the fall schedule (Schedule 135), which runs from the end of the mini-shutdown in mid October until the beginning of December, will be scheduled after the summer MMS-EEC meeting, which will be held on June 4th, 2018.

A collaboration of Canadian μ SR groups (led by Jeff Sonier) and TRIUMF has received funds from the Canadian Foundation for Innovation (CFI) and matching funds from the provincial governments of British Columbia, Ontario, Quebec and New Brunswick for a \$10.7M project to redevelop the high-momentum channel, which will be called M9H. M9H will have unique capabilities that will allow users to study materials under extreme conditions of high pressures, high magnetic fields, and very low or very high temperatures. As part of this project we will complete the repair of the M9 front-end, which will allow operation of the new M9A beam line at the beginning of the 2019 summer beam period. This beam line will have a dedicated 3 Tesla spectrometer with APD detectors and will be optimized for rapid sample characterization. The addition of M9A and M9H will significantly increase the amount of μ SR beam time available to users.

There will be reduced availability of β -NMR in 2018 due to the delayed startup of ISAC as personnel have been shifted to tasks related to the completion of the Advanced Rare Isotope Laboratory (ARIEL). ARIEL is TRIUMF's flagship multidisciplinary research facility and will triple TRIUMF's output of rare isotopes for research upon completion in 2022. This year we are anticipating approximately four weeks of ^8Li β -NMR, instead of the usual five weeks, and one week of ^{31}Mg β -NMR.

END

If you have any questions or concerns regarding the contents of this newsletter, please contact: marcello@triumf.ca or sciencediv@triumf.ca