Abstract Submitted
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Francium Trapping Facility at TRIUMF for weak interaction studies[1] J. ZHANG, L.A. OROZCO, JQI, Physics, UMD and NIST, College Park, MD 20742, USA, R. COLLISTER, G. GWINNER, Physics, University of Manitoba, Winnipeg, MB R3T 2N2, Canada, M. TANDECKI, J.A. BEHR, M.R. PEARSON, TRIUMF, Vancouver, BC V6T 2A3, Canada, E. GOMEZ, Instituto de Fisica, UASLP, San Luis Potosi 78290, Mexico, S. AUBIN, Physics, College of William and Mary, Williamsburg, VA 23197, USA, FRPNC COLLABORATION — We present the current status of the Francium Trapping Facility at TRIUMF. After successfully commissioning the capture chamber we are now in the process of finishing the science chamber where weak interaction measurements on Fr will be performed. We require transfer of the cold atoms from the capture chamber to the science chamber where they can be re-trapped for precision spectroscopy. The modular design of the science chamber allows for microwave studies for the anapole moment measurement and optical studies for the weak charge measurements using atomic parity non-conservation. We will present our current status and the plans for the commissioning run of the science chamber.

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