Joint DESY and University of Hamburg Accelerator Physics Seminar

WEDNESDAY, 18.05.2022 16:00

ZOOM video seminar (needs version 5.8+)

Particle Accelerator R&D at TRIUMF and the University of Victoria

Tobias Junginger

University of Victoria & TRIUMF

Abstract

TRIUMF is using SRF technology for its heavy ion post-accelerator at the ISAC facility and for the ARIEL high power electron linac, a second driver for radioactive ion beam production. Ongoing projects on ISAC include increasing beam time through model-based beam tuning and reaching higher charge states with two frequency heating of the charge state booster. Potential future developments aim to reach higher beam energies through SRF upgrades and adding a storage ring to the facility. Through ISAC and ARIEL SRF technology has become a key expertise of TRIUMF. Fundamental SRF research addresses heat treatments for coaxial cavities and material science studies taking advantage of local infrastructure at TRIUMF (muSR and beta-NMR) and UVic (electron microscopy). Finally, I will present examples of UVic and TRIUMF involvement in large international accelerator projects for particle physics and other Canadian accelerator projects in medical and material science.

NOTE THE UNUSUAL DATE

W.Hillert, M.Wenskat (Univ. HH), I.Agapov (MPY) and M.Vogt (MFL).