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TRIUMF ARIEL Electron Linear Accelerator

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Hosted by TRIUMF, supported by a consortium of 14 Canadian Universities led by the U.Victoria, and funded by the Canadian Foundation for Innovation, the National Research Council and the province of British Columbia, the ARIEL project commenced design and construction of the ARIEL buildings and the 50 MeV, 10 mA capable electron linear accelerator (e-linac) in September 2010. The accelerator, which uses super-conducting radio-frequency cavities operating at 1.3GHz at 2K, is designed for 100% duty factor operation. The focus of this report is the e-linac major systems, a summary of the accelerator capability, and highlights from the low power commissioning in 2014. In addition, plans for the build out of the electron beamline to the target station for production of radioactive ion beams, and the future upgrade of the accelerator will be presented.

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