## **CEC-ICMC 2015 - Timetable, Abstracts and Presentations**



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## First results from the Cornell high Q cw full linac cryo-module

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Cornell University has finished building a 10 m long superconducting accelerator module as a prototype of the main linac of a proposed ERL facility. This module houses 6 superconducting cavities- operated at 1.8 K in continuous wave (CW) mode - with individual HOM absorbers and one magnet/ BPM section. In pushing the limits, a high quality factor of the cavities (2•10^10) and high beam currents (100 mA accelerated plus 100 mA decelerated) were targeted. We will review the design shortly and present the results of the components tested before the assembly. The main focus of the paper will be on preparation of the first cool-down, being scheduled by the time of the conference.

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