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(G*) POS-C9 – Energy Compression System Radio Frequency Design at the Canadian Light Source

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The Canadian Light Source (CLS) is considering a linear accelerator (LINAC) upgrade. As a result, the radio frequency (RF) structure in the downstream Energy Compression System (ECS) needs to be redesigned. In this paper, we describe the design process followed to determine the geometry of the RF structure cells and coupler. Wakefield simulation results are also presented. The wakefields and input RF fields are applied to beam dynamics simulations.

Author: ERICSON, Evan (Canadian Light Source)

Co-authors: BERTWISTLE, Drew (Canadian Light Source); BOLAND, Mark (University of Saskatchewan (CA))

Presenter: ERICSON, Evan (Canadian Light Source)

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