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The New Electron Source Lab at CLS

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The Canadian Light Source (CLS) has recently created a new Electron Source Laboratory (ESL). This lab is a cut off section of the linac hall/tunnel that was constructed late 1950's to host the Saskatchewan Accelerator Laboratory experimental nuclear physics. The rebuilt has new shielding and a separate entrance that can accommodate an independent use of the area from the existing linac and can operate an accelerator of up to 100 MeV and . The laboratory will be used to prepare an operational spare electron gun for the existing 250 MeV linac. In addition, there are plans to develop RF electron sources for a future branch line to inject into the linac and for possible short pulse production. This paper will give an overview of the ESL space and the first electron guns which plan to be installed and characterized.

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