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Life Review and Development of Thyatron in Linac Coherent Light Source

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Linac Coherent Light Source (LCLS) at SLAC has started to run since April, 2009 and is driven by eighty-four klystrons. Each klystron is powered by a line-type modulator with a high power thyatron as a switch. The thyatron life time has become an important concern since its invention. SLAC has accumulated thyatron life data in past long time operation. In this report, we will review the life of thyatron tubes in LCLS and some life extension developments of the thyatron will be presented.

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