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Project: Experimental evaluation of a Pulsating Heat Pipe for distributed Cooling
MOTIVATION

Space exploration requires fuel storage. However current storage methods still produces boil-off losses. Using a pulsating heat pipe is one method for active cooling. With no moving components within the heat pipe, it provides a means for providing zero boil-off solution.
A pulsating heat pipe (PHP) is a device much like a convectional heat pipe but with the absence of the wick component. The heat pipe relies of pressure differential caused by collapsing of vapor plugs and formation of liquid slugs. The causes different kinds of motion, the most notably being oscillatory-translation motion.
CURRENT TASK

• Re-run the 3-evaporator PHP present in the lab
• Test the LabVIEW Code written for the project
• Re-create results gotten by previous investigator

Current experimental setup