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Using PyDevice to connect Beamline simulations to a controls framework (Bluesky/EPICS)

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Experimental Physics and Industrial Control System (EPICS) is a framework for developing distributed control systems. One of the modules available to EPICS is PyDevice which allows connecting python code to the process variables distributed by the EPICS control system. Bluesky is a higher level, user-facing framework for specifying the logic of experiments. In this poster, PyDevice will be used to connect simulated x-ray beam lines to the EPICS control system, creating "realistic"controls environment in which to test Bluesky-based experimental plans (e.g. using genetic algorithm or reinforcement learning).

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