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## A software framework and toolkit for developing simulations of 2D pixel detectors

*Tuesday, April 8, 2014 4:00 PM (15 minutes)*

X-CSIT (X-ray Camera Simulation Toolkit) is a software framework and toolkit for creating simulations of 2D X-ray pixel detectors. As a toolkit, X-CSIT is designed to be highly modular and adaptable to the wide variety and variations found in X-ray cameras. X-CSIT is under development at UCL for European XFEL, and will be used to create simulations of the three bespoke 2D detectors at European XFEL, AGIPD, LPD and DSSC. These simulations and X-CSIT will be integrated into the European XFEL software framework, Karabo, and through that be available to users to aid with planning of experiments and analysis of data. In addition X-CSIT will be released standalone publicly for other users, collaborations and groups to create simulations of their own detectors.

### Summary

Announcing X-CSIT, a software framework and toolkit for creating simulations of 2D X-ray pixel detectors.

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