

Tamarin UI: Building a Reusable Web Frontend for Bluesky Measurements at HZDR

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Controlling and monitoring experiments in the Bluesky ecosystem can be challenging for non-expert users. Tamarin UI is a lightweight web application that provides an accessible, role-aware frontend for executing Bluesky plans via the Bluesky Queue Server. It visualizes live readbacks from Ophyd devices in real time and uses Tiled for browsing and retrieving historical runs. Designed as a reusable application, Tamarin UI can be deployed for different projects at HZDR without rewriting core logic.

This presentation provides an overview of Tamarin UI's key features, demonstrates how it integrates with the existing Bluesky ecosystem (including the Bluesky Queue Server and Tiled), and highlights additional services designed to enhance the user experience for automated measurements.

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