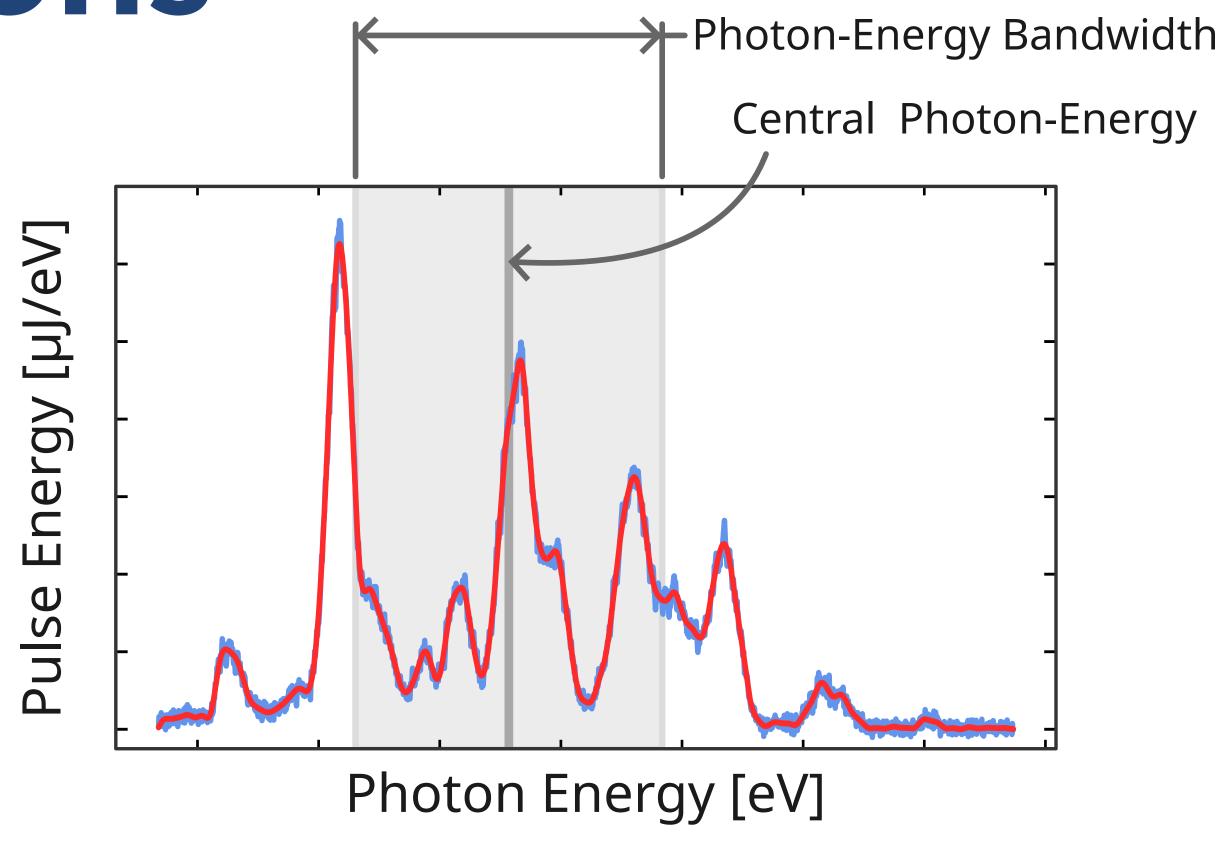
Electron-Photon Correlations Towards Data-Driven Prediction & Fine-Tuning of X-Ray Pulses

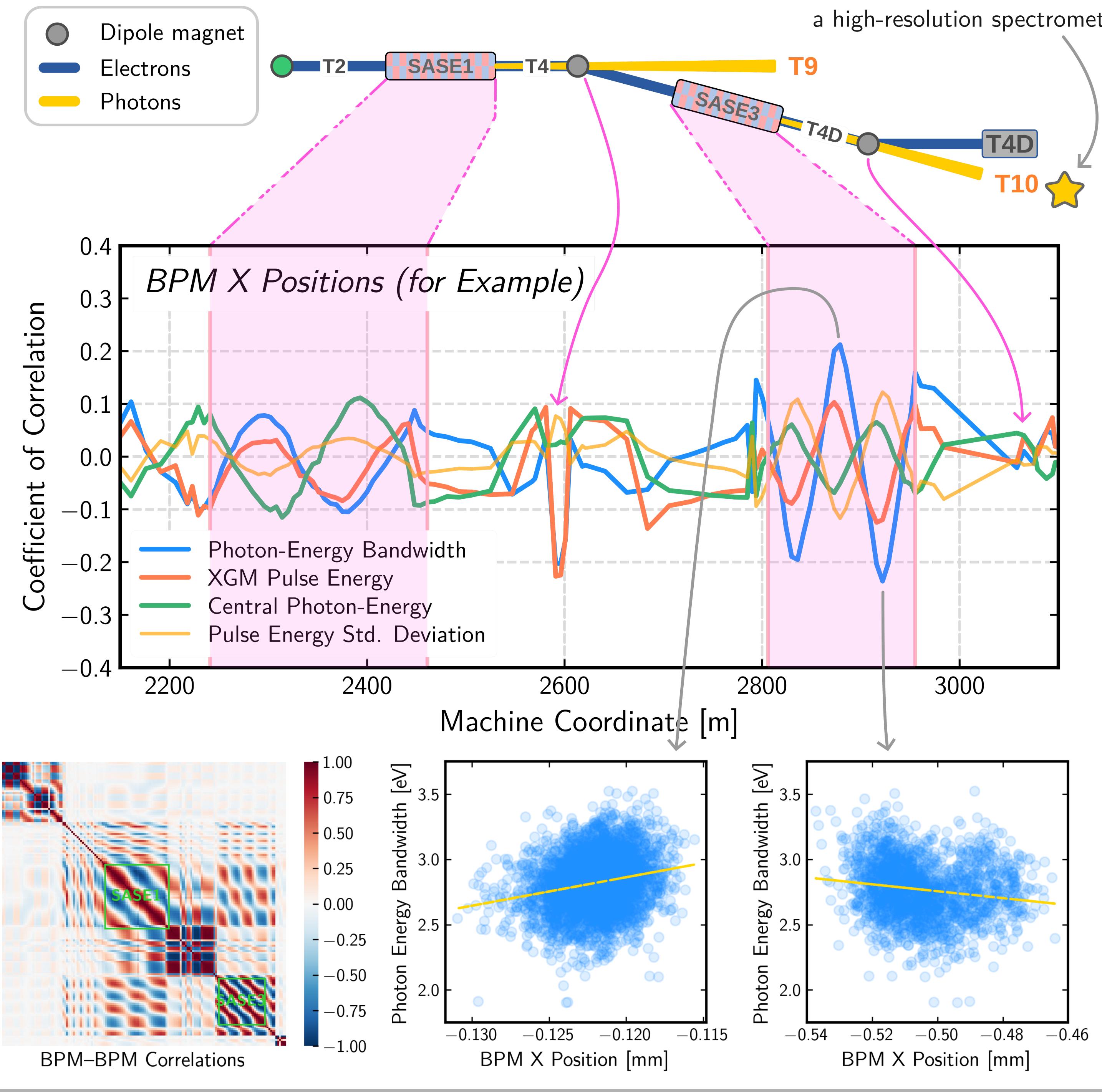
Build a surrogate model that leverages the vast amount of complex diagnostic data to provide:

- pulse-resolved and non-invasive virtual diagnostics,
- starting ranges for machine parameters to streamline setup and tuning,

in order to enhance the scientific output of the facility.



X-ray pulse properties from a high-resolution spectrometer T4D 3000



Fady Bishara, Danilo Enoque Ferreira de Lima, and Luca Gelisio [Data Analysis group] with many colleagues from EuXFEL and DESY

European