Contribution ID: **470** Contribution code: **MOPB088** Type: **Poster Presentation**

Exploratory tests for the design of a Python accelerator middle layer

Monday 2 June 2025 16:00 (2 hours)

Several laboratories and facilities recently started joined efforts towards the realization of a python accelerator middle layer (pyAML) for control, tuning and optimization. This software is intended as a successor to matlab middle layer (MML), inheriting its features but also expanding to new ones (e.g., nonlinear optics and machine learning tools). Presently, several codes are available that provide some of the desired features. These codes have been adapted and tested at several of the participating laboratories to give input to the design of the pyAML. The most relevant features and results have been analyzed and are presented here together with the implications for the pyAML design.

Footnotes

Paper preparation format

LaTeX

Region represented

Europe

Funding Agency

On behalf of the pyAML collaboration

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Session Classification: Monday Poster Session

Track Classification: MC2: Photon Sources and Electron Accelerators: MC2.A24 Accelerators and Storage Rings, Other