Contribution ID: **31**   Type: **not specified**

Beam physics/simulation software evolution: challenges, opportunities (20'+10')

Thursday 12 December 2024 08:45 (30 minutes)

Xsuite: overview on status and long term plans.
Opportunities from transitioning to modern technologies(e.g. python integration, live simulations in operation and MD, integration of AI)
Integration of (full) simulators in control system - status, challenges, required collaborations
Synergies in modelling and design choices between next generation of accelerators and present ones.

Presenter: LOPACIUK, Szymon (CERN)

Session Classification: Beam dynamics modelling <-> Controls, data and automation