Interview with Juncheng E on the photon experiment simulation environment SIMEX (with DEMO)



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SIMEX is a unique simulation framework that uses some of most advanced simulation tools and integrates them to mimic an entire light source beamline. It is a flexible, modular system that can be tailored for use at potentially any advanced light source. We interviewed Juncheng E (European X-FEL / PaNOSC) on the use of SIMEX for photon experiment simulations.





SIMEX (with DEMO)

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Juncheng E, scientist for photon experiment simulations at European XFEL, is one of the PaNOSC contributors involved in the

development of SIMEX, a uniform API written in python to help users organize their start-to-end simulations for photon and XFEL experiments.

We interviewed him to have an overview of the tools currently available for such simulations, and to present some examples of the use of SIMEX.

In this respect, Juncheng showcased two demos related to serial crystallography and single-particle imaging experiments' simulations, and introduced the developments

envisaged in the future.

WATCH THE INTERVIEW HERE: https://youtu.be/Ei5DtrC-4BI

Additional resources:

SimEx github repository - SimEx source code: https://github.com/PaNOSC-ViNYL/SimEx

SimEx jupyter notebook examples https://github.com/PaNOSC-ViNYL/SimEx-notebooks

Learn more on PaNOSC simulation services: https://www.panosc.eu/services/data-analysis-simulation-data-system/

Schlüsselbegriffe

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WISSENSCHAFTLICHE FORTSCHRITTE

Watch the interview with Erik Knudsen on the McStas python interface McStasScript for X-ray telescope simulations (with DEMO).





17 März 2021





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9 März 2021



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Interview with Mads Bertelsen on performing McStas simulations with McStasScript (with DEMO)



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