

Start-to-end Wave Propagation Simulations of Beamlines and Coherence Properties using SRW PIV

Friday 10 November 2023 13:40 (10 minutes)

The FS-PETRA Beamline Optics Simulation group is developing tools and providing support for ray tracing and wave propagation simulations of PETRA beamlines. With the sharp increase of coherence at PETRA IV, wave propagation simulations gain in relevance and will be necessary for many upcoming beamlines. Start-to-end simulations of entire beamlines, including coherent imaging experiments, can be performed.

In my talk I will introduce the principles and simulations of such simulations and explain the unique computing requirements they have.

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