

# Simulation of high power laser experiments by using high performance computer

*Tuesday, 3 November 2020 10:35 (10 minutes)*

In this talk I will briefly introduce the the high-power laser system available in ELI-NP and the necessity to perform numerical simulation for experiments with these lasers. The simulation method involved requires a massive parallelization. The idea how it is done will be introduced. A short example of parallelization of using Message Passing Interface (MPI) will be shown.

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**Session Classification:** Compute services in EGI - Overview and use cases