

## JETSET FP6, "Jet Simulations, Experiments, Theory" 10 years later, what is next?



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### Laboratory Astrophysics at ELI-NP

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Extreme Light Infrastructure –Nuclear Physics (ELI-NP) is the Romanian pillar of the pan-European distributed research facility based on ultra-short-pulse lasers. Due to the unprecedented intensity regimes the 10PW lasers at ELI-NP can reach, and also to the combination of beams that can be synchronized and made available at the same time, new experiments relevant for the extreme conditions of astrophysics can be imagined.

Moreover, ELI-NP features a high-intensity, tunable, narrow bandwidth gamma beam system, that can be used for studies of nuclear astrophysics and can also be used at the same time in experiments with the high power laser beams.

Some of the proposed experiment categories relevant for astrophysics will be presented, as well as an overview of the beam capabilities and interaction chambers available for external users access. A long-term Astrophysics programme at ELI-NP is under development by the forming international user community.

#### Contribution

Talk

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