

Results obtained

During the first phase of the project, the acquisition of the optical components from Thorlabs and the three-axes linear vacuum-compatible motorized stage, with controller and cables, was completed at ELI-NP. The CETAL team bought new flash lamps for the pumping laser, measured the spectral and spatial distribution of the ultrafast laser pulses and measured the dimensions of the focal spot, to compute the average intensity of the focused laser pulse. The ELI-NP team built and tested the optical setup for CTR imaging in the LP14 laboratory at ELI-NP and used two systematical procedures for the alignment of two confocal off-axis parabolic mirrors.