



State of the Art for the new Petawatt OPCPA beamline VOPPEL at Vulcan laser facility

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At the Vulcan Petawatt Laser Facility a major upgrade is going to expand the capability to deliver world leading experiments. To improve the existing Petawatt target area (400J in 400fs at 1055nm), the new laser beamline VOPPEL is under construction. The aim is to provide pulses of 30J in 30fs around 880nm.

The possibility to have two petawatt laser pulses will open new type of experiments, from advance probing to QED experiments.

In this presentation, the project will be presented, discussing the current progress of the work and the future challenges for the success of the development.