

Pre-Excitation Studies for Rubidium-Plasma Generation

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The key element in the Proton-Driven-Plasma-Wake-Field-Accelerator (AWAKE) project is the generation of highly uniform plasma from Rubidium vapor.

The standard way to achieve this aim is to use large power laser which can assure the over-barrier-ionization (OBI) along the 10 meters long active region.

The Wigner-team in Budapest is investigating an alternative way of uniform plasma generation. The proposed Resonance Enhanced Multi Photon Ionization (REMPI) scheme probably can be realized by much less laser power.

Theoretical considerations and status report about the preparatory work on the experiment are presented.

Relatore: GYORGY, Vesztergombi (Wigner RCP)

Classifica Sessioni: Wine and Poster Session

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