

laser-driven electron accelerator that produces extremely short relativistic electron pulses using high-

In addition to the acquired important skills, the

international cooperation and personal contacts. The

course is to be conducted in English and is expected

students will experience the significance

frequency electric fields.

to be held in October 2024.

GERMAN-ARMENIAN STUDENT COURSE ON **ACCELERATOR PHYSICS**

5-12 OCTOBER, 2024







http://candle.am/german-armenian-school-2024/ info@asls.candle.am





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COURSES

BEAM PHYSICS AND DIAGNOSTICS

Energy and energy spread Beam phase space Beam profile and charge



ULTRAFAST LASERS

IR and UV lasers Laser pulse manipulation Beam shaping and control

GENERATION OF ULTRASHORT RELATIVISTIC ELECTRON BEAMS

Photoelectric effect High gradient acceleration Significance of relativistic kinematics





ACCELERATOR TECHNOLOGY

Ultrahigh vacuum Beam-matter interactions Magnets for accelerators

ELECTROMAGNETIC FIELDS

Cavities and waveguides High-power electromagnetic fields

RF measurements and control

