Laser surface treatment

Project code	75
Supervisor	Marcel Himmerlich
Department	TE

Title

Laser surface treatment

Description

Contribute to the commissioning of a laser surface treatment bench conceived to roughen the surfaces and reduce the secondary electron yield and the optical reflectivity of materials. The laser will be coupled with a fiber and a robot, which is designed to treat inner surfaces of vacuum chambers for particle accelerators.

Functions and Training Value

Participate in the optimization of the treatment parameters, surface treatment strategy and patterning by operating the laser system and developing a suitable Labview based code for the robot .

Qualifications/Skills

Material scientist or Physicist with good knolwedge of Labview programming and optics.