

Seminar über Biomedizinische Photonik

Referent: Arushi Jain, Institute of Applied Physics, University of Bern

Titel: Er-YAG laser fiber transmission and bone ablation

Er-YAG (2.94 μ m wavelength) laser is a promising tool for cutting or drilling in tissues. While various applications require the use of robotic articulated arms, a compact and flexible system can only be achieved via incorporating optical fibers. Fiber used for the experiments is germanium dioxide fiber. The transmission measured at the output end of the fiber is approximately 60-70% of the input power. The study was to use a minimal optics after the fiber to perform bone ablation. We will discuss the influence various parameters on ablation using fiber optics.

Zeit: Mittwoch, 01.11.2017, 10:15 Uhr

Ort: **Hörsaal A97**, Gebäude exakte Wissenschaften, Sidlerstrasse 5, Bern, Schweiz