

Téma práce:

Passively Q -switched cryogenic Tm: Y2O3 oscillator

Vedoucí práce: Venkatesan Jambunathan, Ph.D.

Konzultant: Ing. Milan Frank, Ph.D./Ing. Martin Smrž, Ph.D.

Abstrakt:

The goal of this work is to generate nano second pulses from diode pumped Tm: Y2O3 laser using Cr:ZnS and Cr:ZnSe saturable absorbers. The student who is involved will build and characterize the pulsed Tm: Y2O3 cryogenic laser oscillator. This study will lead to a deeper understanding of the fundamental physical processes of pulsed cryogenic Tm:Y2O3 oscillator.