



# Das Institut für Optische Technologien lädt ein zum Kolloquiumsvortrag

## Fabrication of Optical Ceramics with Laser Synthesized Nanopowders

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This report deals with the fabrication and investigation of highly transparent rare earth doped yttria ceramics. For sintering of the ceramics we used a technology which consists of several consecutive steps: synthesis of weakly agglomerated nanopowders by laser ablation, compacting of the green body with cold isostatic pressing (CIP), slip casting or electrophoretic deposition and sintering of the ceramics in vacuum. All steps of the technologies, the results of X-ray diffractometry, dilatometric, micro-structural, IR, absorption and luminescence analysis of the materials produced, and laser oscillation of the ceramics are discussed in the presentation.

Einladender: Prof. Dr. Ulrich Kynast

Ort:

Raum D 145  
(Gebäudeteil D, Parkplatz P3)  
Stegerwaldstraße 39  
48565 Steinfurt

Datum:

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Uhrzeit:

17.00 Uhr c.t.

