

## **LASCAD SEMINAR LASER 2005 MUNICH**

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**LAS-CAD GmbH, Munich, Germany**

**Wednesday, June 15, 1:00 p.m. to 6:00 p.m  
Room A 31 adjacent to Hall A3, second floor  
New Munich Trade Fair Centre**

### **Summary of Topics**

- **Introduction**
- **The gaussian ABCD matrix code**
- **Implementation of the ABCD matrix code in LASCAD, practical demonstration**
- **The Finite Element Analysis code of LASCAD: Computation of temperature distribution and thermal deformation**
- **Simulation of an end pumped rod, practical demonstration**
- **Composite laser materials**
- **The physical optics code**
- **Computation of laser output power:  
4-level-laser systems  
3-level-laser systems  
(temperature dependent computation)**
- **Simulation of a side pumped rod**
- **Simulation of side pumped slabs**
- **Simulation of a flashlamp pumped rod with data input from ZEMAX**
- **Outlook**
- **Discussion and questions**