

The IALB consists of two groups. The group for electrical drives (Prof. Orlik) focuses on mechatronics and the control of motors and (local) grids, in particular grids fed by renewable energy, i.e. converter technology in general. The group for devices (Prof. Kaminski) focuses on power semiconductor components and their environment and application. The following details describe the latter group only.

Key Research Fields & Competence Areas:

Semiconductor Chips

- Basic properties
- Device concepts
- Device simulation
- Alternative materials, e.g. SiC

Semiconductor Housing

- Housing technology and cooling
- Reliability
- Parasitics

Institute Highlights:

- New laboratories and simulation equipment
- DLTS and Admittance Spectroscopy equipment
- Reliability testing equipment (to be purchased)
- Machine hall for large scale experiments



Contact Information:

Prof. Dr.-Ing. Nando Kaminski
Universität Bremen, Fachbereich 1 Physik/Elektrotechnik
Institut für el. Antriebe, Leistungselektronik und Bauelemente
Otto-Hahn-Allee NW1, 28359 Bremen, Germany
Phone: +49 421 218-62661 Fax: +49 421 218-4318
e-mail: nando.kaminski@uni-bremen.de
URL: <http://www.ialb.uni-bremen.de>