Physik-Kolloquium

Dienstag, den 14.12.2010, 17:00 Uhr

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Our Daily Life with Semiconductor Lasers

What was initially thought to be a useless orchid—stimulated emission from a p-n-diode—could be made to operate at room temperature by intelligent band structure engineering in 1970. In the following 25 years double-heterostructure lasers became the enabling devices for intercontinental optical communication, the basis of the Internet. 50 years after discovery, vertical and edge emitting semiconductor lasers, based on an ever increasing variety of material systems and nanostructures, operating from the UV to the middle IR, at very small mW or very large kW output power, present a backbone of modern energy-efficient technology. DVDs, the optical mouse, the Terabus, the 100 G Ethernet, material processing, medical applications... exemplify the ever increasing economic importance of this development.

Ort: Hörsaal für Theoretische Physik, Linnestraße 5
Alle Teilnehmer sind ab 16:30 Uhr zu Kaffee und Kuchen in die Aula eingeladen.