

# **Broadband Communication research activities at the COBRA Institute**

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*The activities in the COBRA Institute encompass research on novel materials, devices and systems for broadband communication. Novel optical materials enable ultra-fast multi-functional integrated optical circuits. With these, high-capacity fast-routing networks are investigated, as well as versatile fibre access and in-home networks, and their applications. The activities in the area of optical communication are within the heart of the institute. An overview will be given how these activities fit within the entire field of research of COBRA, illustrated with some recent research highlights, and of COBRA's future research directions.*