

Heterogeneous integration of for mode-locked lasers and nonlinear functionalities

Abstract: In this talk, we will go over the technologies that are used for the heterogeneous integration of materials. Next we will discuss specifically the integration through micro-transfer printing of Lithium Niobate, GaAs and InP for nonlinear functionalities and lasers.



Lecturer : Bart Kuyken received the BSc in Physics and BSc and MSc in Electrical Engineering from Ghent University in 2006 and 2008 respectively. In 2009, he obtained an additional MSc degree from Stanford University. After obtaining a PhD degree from Ghent University in 2013, Bart Kuyken focused his post-doctoral work on integrated nonlinear circuits and comb generation and was a visiting worker at the Max Planck Institute for Quantum Optics in 2013 and 2014. Currently, Bart is a professor at Ghent

University where he is looking at electrically pumped comb sources on chip and the heterogeneous integration of Lithium Niobate.