

Webinar

Frontiers in Optical Parametric Oscillators Chaitanya Kumar Suddapalli ICFO-The Institute of Photonic Sciences, Spain

Optical parametric oscillators (OPOs) are one of the most viable and practical sources of coherent radiation based on nonlinear frequency conversion. Starting from a fixed pump wavelength, OPOs are uniquely capable of providing wide wavelength tunability along with temporal versatility. Such broadly tunable sources in the midinfrared wavelength range are critical for a variety of applications including spectroscopy and biomedicine. These applications are driving the rapid development and commercialisation of a new class of high power, high repetition rate, mid-infrared OPOs. In this seminar, I will present the development of state-of-the-art ultrafast midinfrared OPOs in the 3-8 µm wavelength range along with associated challenges.

Thursday, Jul 29th 2021 4:00 PM