



KSOP-QMat Summer School 2020

Interferometric detection for nanoptics and bio-sensing

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Interferometry is widely used in metrology and experimental research because of the exceptional sensitivity that interferometric devices can offer for a relatively wide range of applications. This conference will focus on advanced interferometric sensing systems in nano-optics and biosensing, where optical components can often be relatively simple and inexpensive yet effective. The devices presented cover holographic microscopy, near-field optical microscopy and implementation in ellipsometry.

The applications discussed cover :

- (1) - the measurement of strain fields
- (2) - optical mode analysis in integrated optics devices
- (3) - ellipsometric detection and bio-detection.