

GCOE CEDI Global Seminar

Feb. 2nd (Sat.) 17:30-18:30

Room E3-316, GSE, Osaka Univ.

"Quasi-phasematched
nonlinear-optic devices
for various applications"

**Prof. Martin. M. Fejer
(Stanford Univ., USA)**

Quasi-phasematching (QPM) has become an important technique for nonlinear optical frequency conversion, and recently for classical and quantum optical signal processing devices.

Well known applications in parametric frequency conversion devices such as harmonic generators and parametric oscillators are now complemented by developments for communications applications such as wavelength convertors for WDM systems, gated mixers for TDM multiplexing and demultiplexing, and spectral inverters for correcting dispersion and Kerr nonlinearities. Recent developments such as supercontinuum generation and devices for quantum optics, will also be discussed.

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