


**Carrier phase estimation for optically coherent QPSK (Technion)****code:** COM-1400

The proposed technology is a novel carrier phase and frequency recovery system that automatically cancels local oscillator (LO) frequency offsets. The system exhibits significantly improved phase noise tolerance and is extremely robust to rapid intradyne frequency drifts (10GHz/s chirp) which would break down conventional Mth-power frequency estimators. It also outperforms conventional schemes in mean square phase error, with low complexity linear processing, using a low number of complex-multiply-adds.

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