

## Error-free Dispersion-uncompensated Transmission at 20 Gb/s over SSMF using a Hybrid III-V/SOI DML with MRR Filtering - DTU Orbit (09/11/2017)

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Error-free 20-Gb/s directly-modulated transmission is achieved by enhancing the dispersion tolerance of a III-V/SOI DFB laser with a silicon micro-ring resonator. Low (~0.4 dB) penalty compared to back-to-back without ring is demonstrated after 5-km SSMF.

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