



25G APD Performance

IEEE 802.3ca Interim Meeting

Dong Peng

SiFotonics

(presented by Chris Cole)

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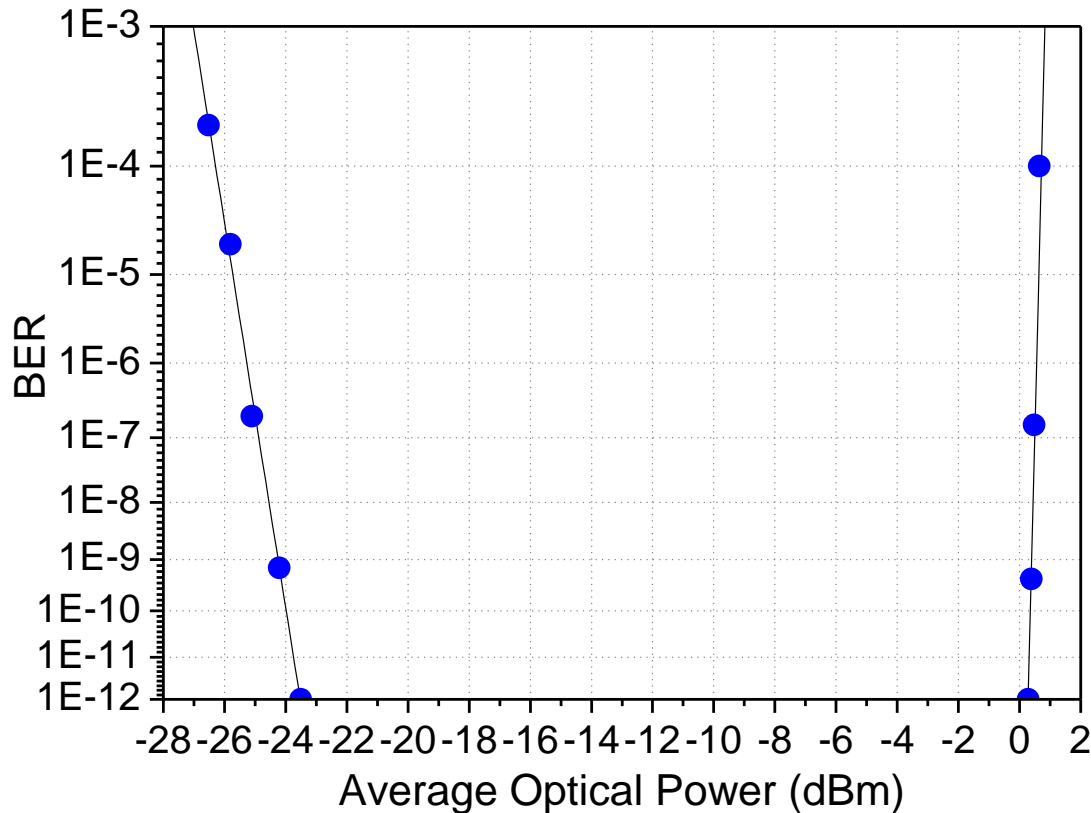


SiFotonics Contributors

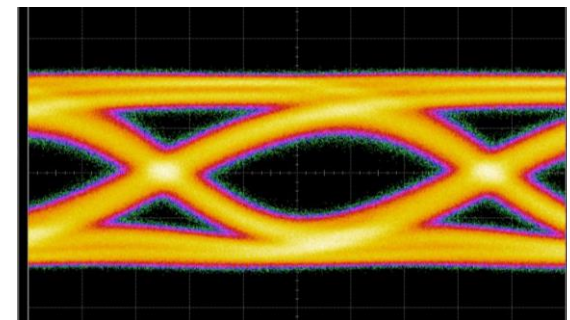
- Pengfei Cai
- Wang Chen
- Ching-yin Hong
- Mengyuan Huang
- Su Li
- Dong Pan
- Tzung-I Su
- Liyuan Zhao



Sensitivity and Overload



APD receiver output eye-diagram at -22.5dBm



Test conditions: back-to-back, 1300nm, ER=9.5dB, 25.78Gb/s, NRZ, PRBS=2³¹-1



Summary

25G APD technology is available for 25G EPON applications

- 1310nm sensitivity = -23.5dBm at 25.78Gb/s
- Passed GR-468-CORE qualifications tests
- CMOS production process