

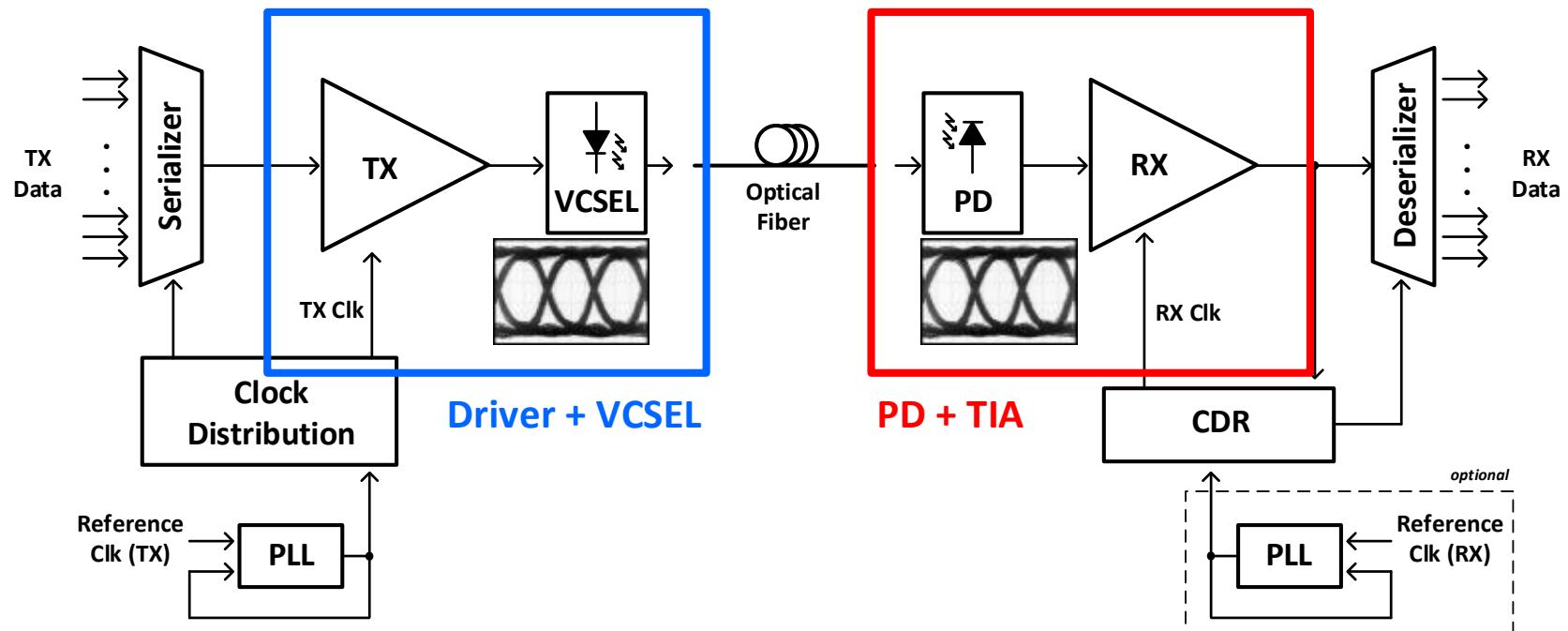
2023-2 Workshop

Research Topic:

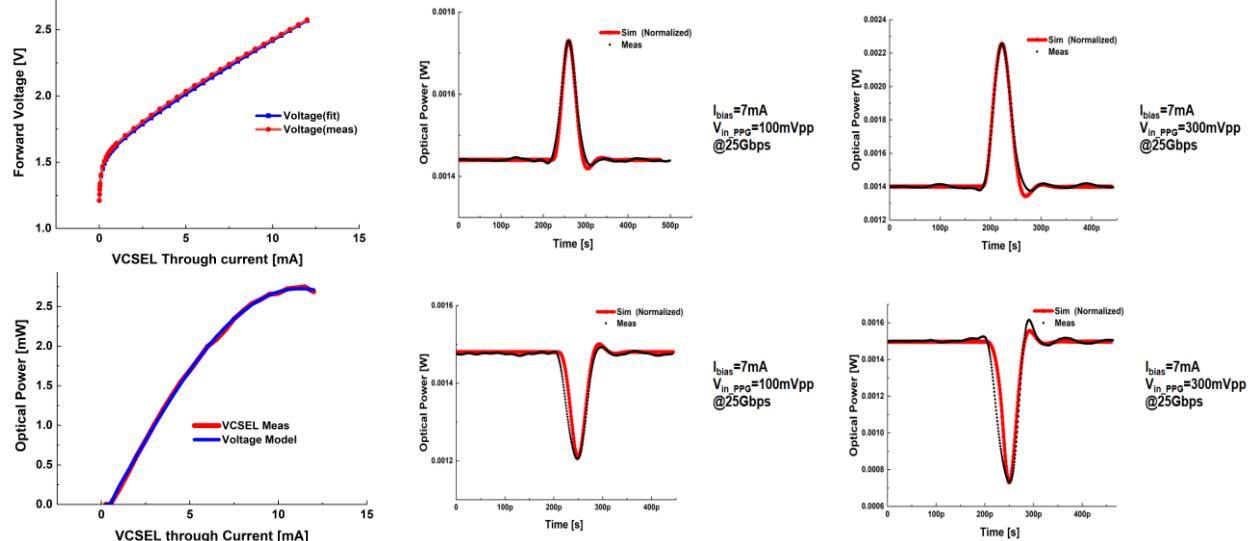
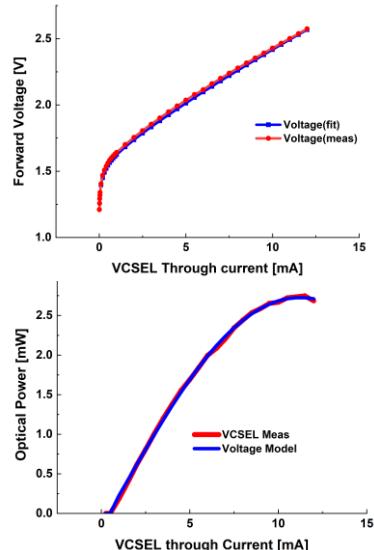
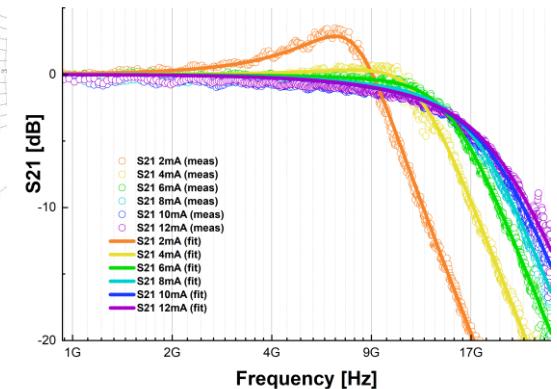
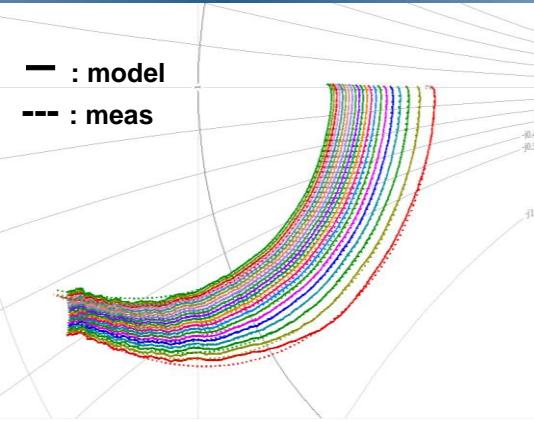
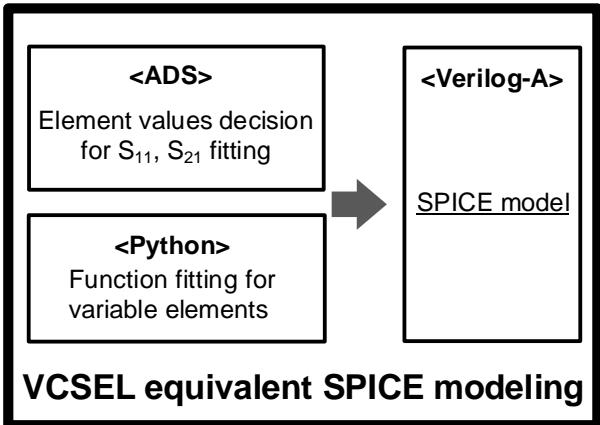
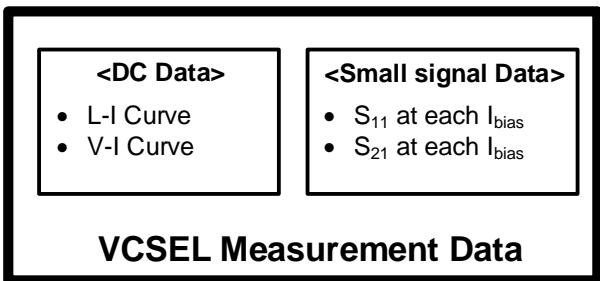
Optical links for the data center

Writer: Jun-Seo Kim
Data: 23.08.16

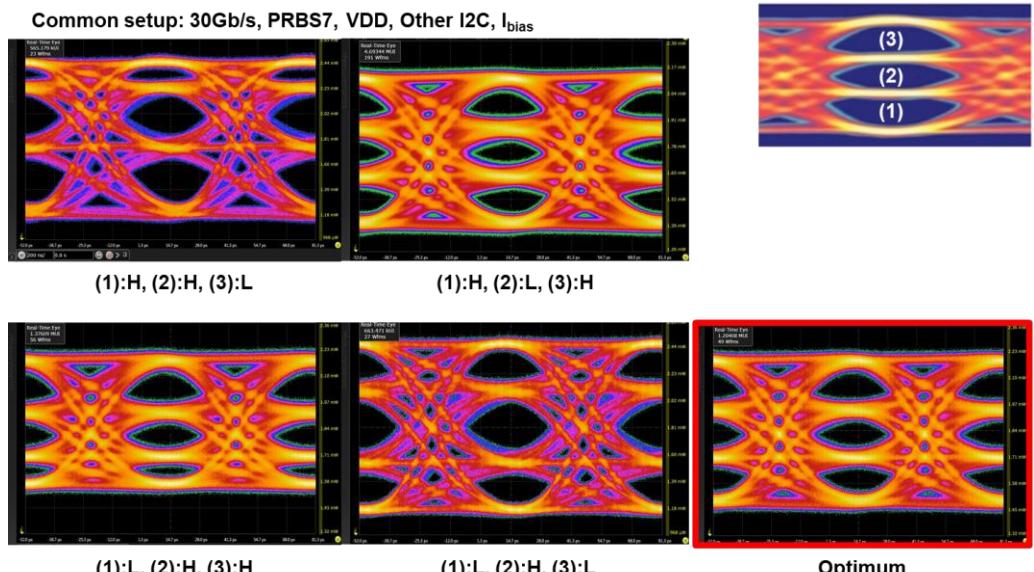
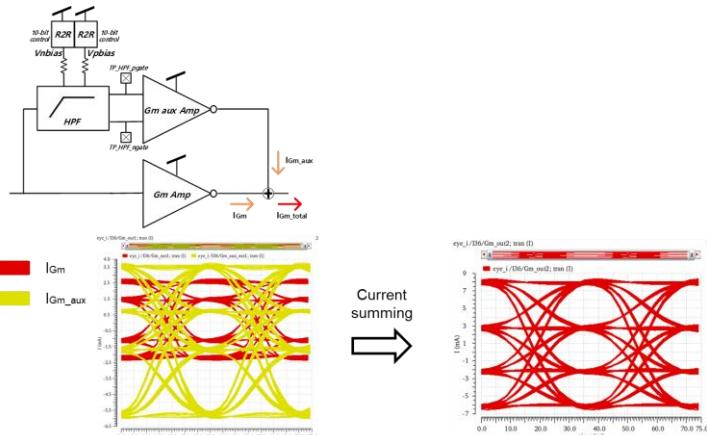
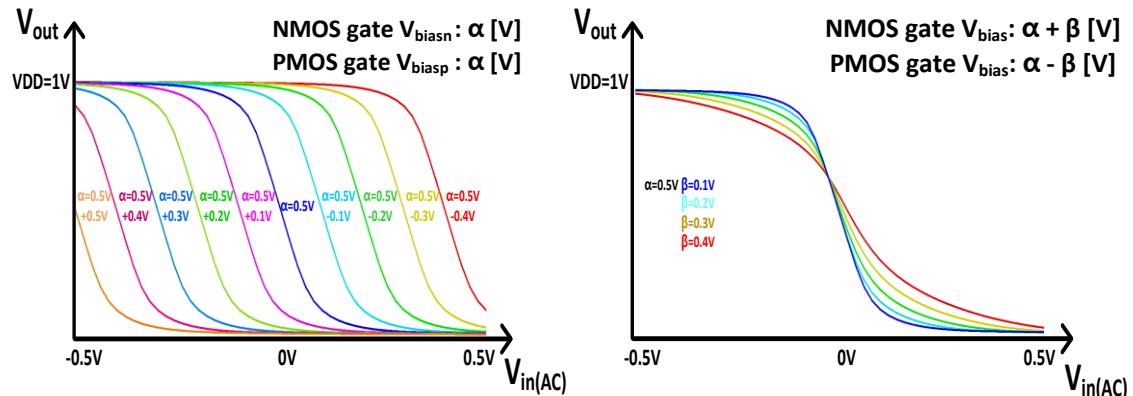
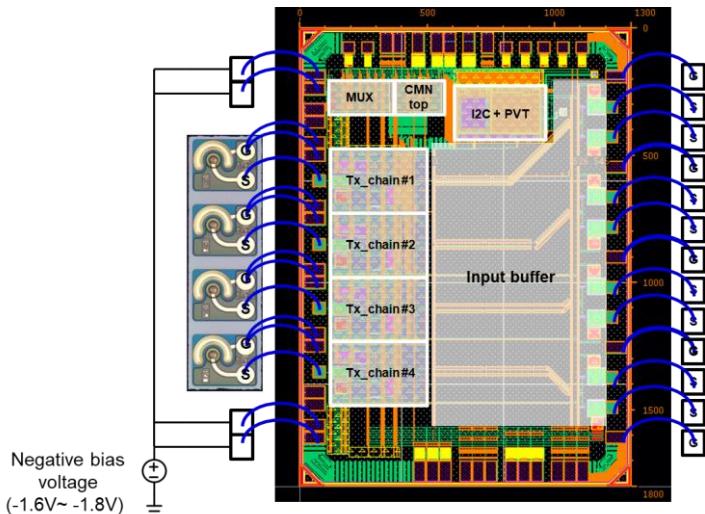
High-speed optical link for the data center



VCSEL equivalent Verilog-A modeling: piecewise linear fitting



50x4 Gbps PAM-4 low power VCSEL driver with open loop RLM controller



PAM-4 optical receiver for RLM and EQ optimization

Topics:

- Differential TIA
- RLM control loop with histogram monitor
- ORX equalizer optimization

