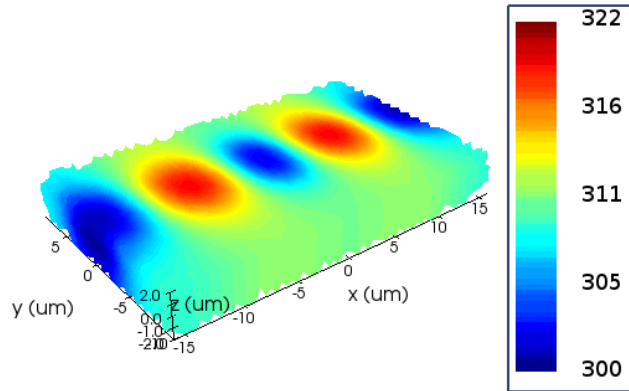
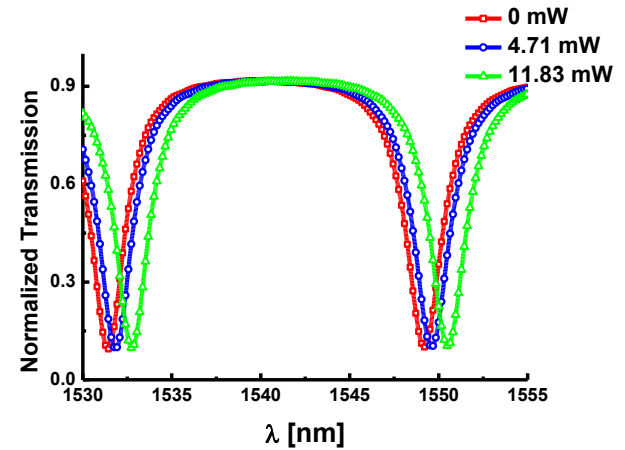


# Heater Optimization

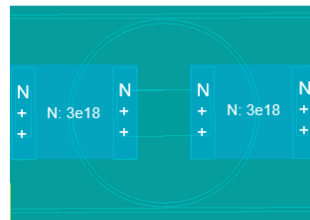


Temperature profile simulation

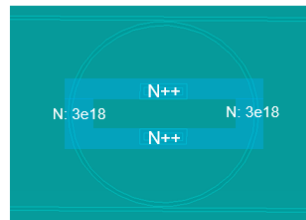


Transmission curve FDTD simulation

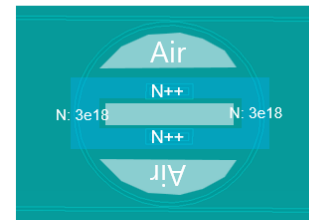
: N-doped heater



Double heater



Adiabatic heater

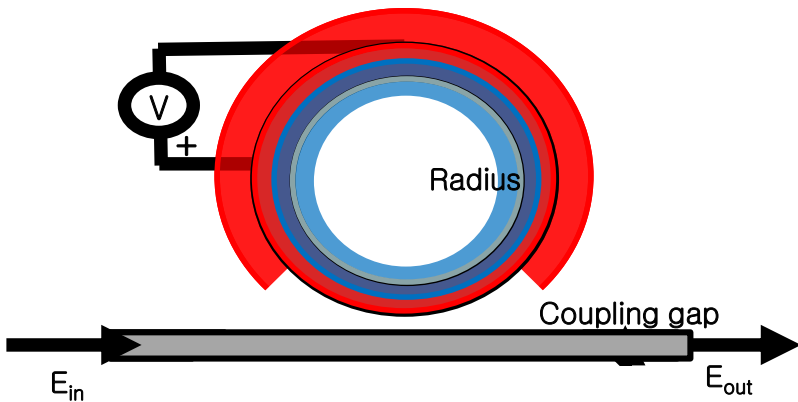


Air trench heater

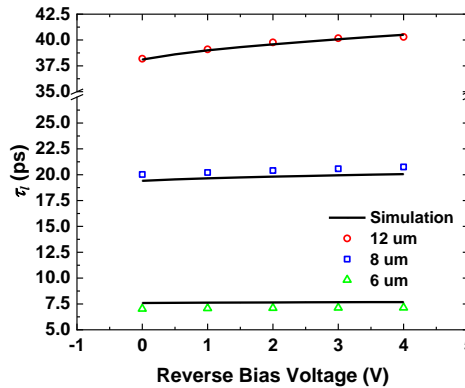
	Double	Adiabatic	Air trench
Power Efficiency (nm/mW)	0.16	0.55	0.88

Results along various heater structure

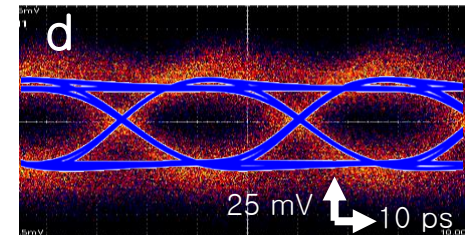
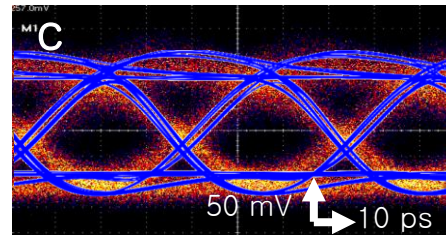
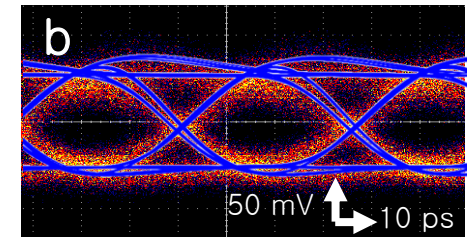
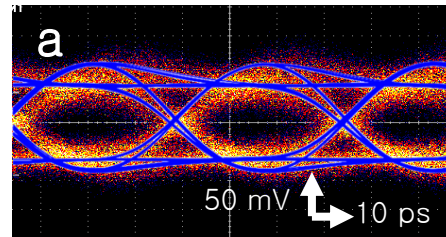
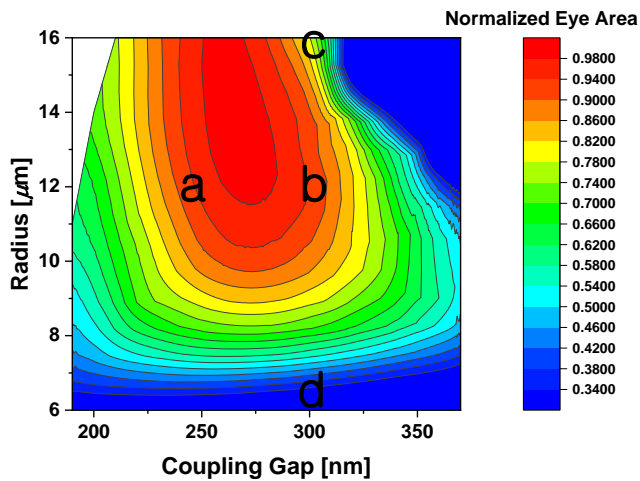
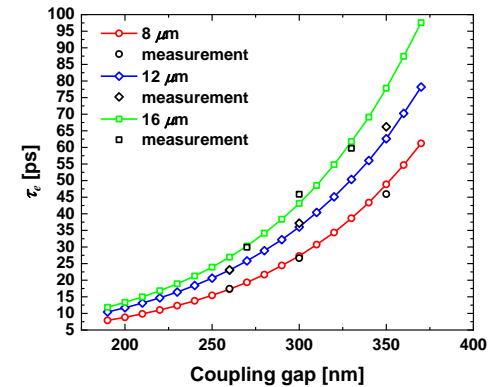
# Device Structure Optimization of Si-RMs



The structure of Si-RMs



Measurement and simulation



Optimization based on eye diagram