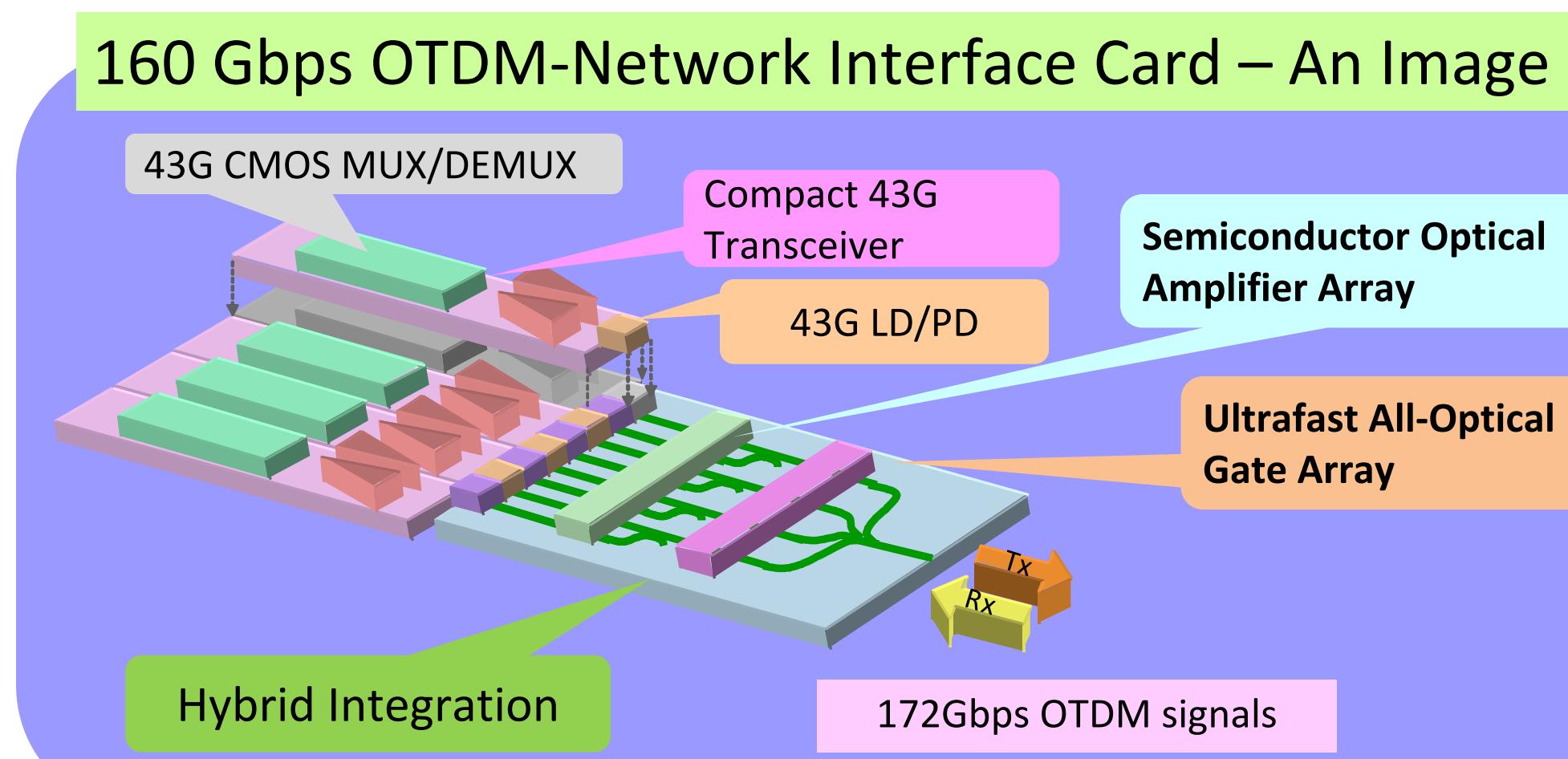


OTDM LAN-SAN System for Ultra-high Definition TV Distribution in Broadcasting Station

Optically Switched 160 Gbit/s LAN-SAN for High Energy Efficiency

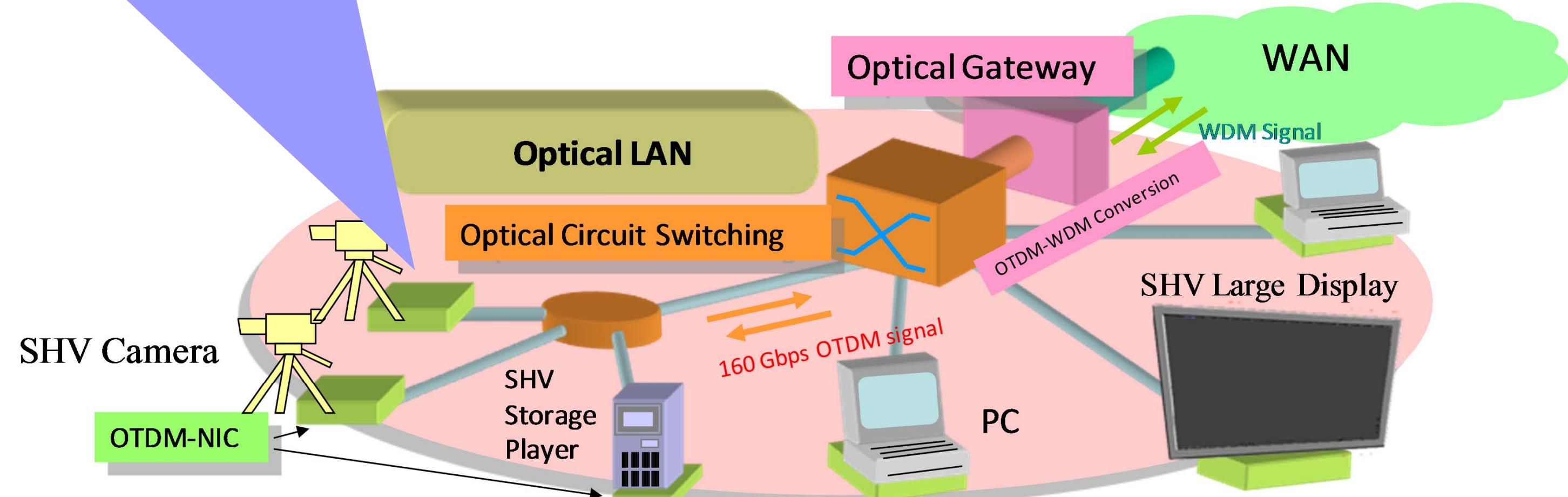
System target image



Towards Ultra-high Definition Video Era

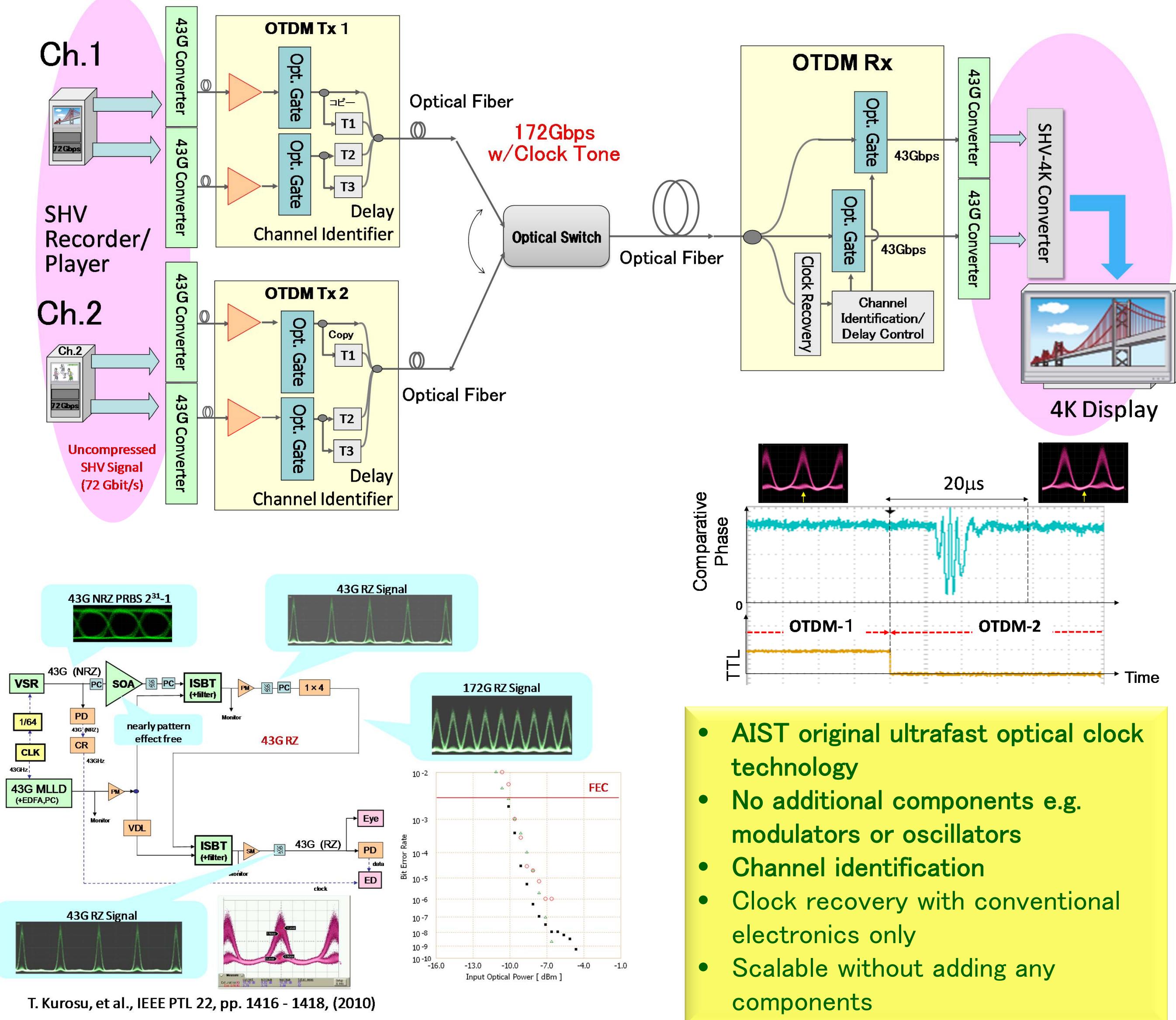
Developing integrated opto-electronic devices technologies for the realization of energy efficient ultra-fast optical LAN for ultra-high-definition videos such as SHV

- Integratable 160 Gbps OTDM-NIC
- Demonstration of SHV contents delivery

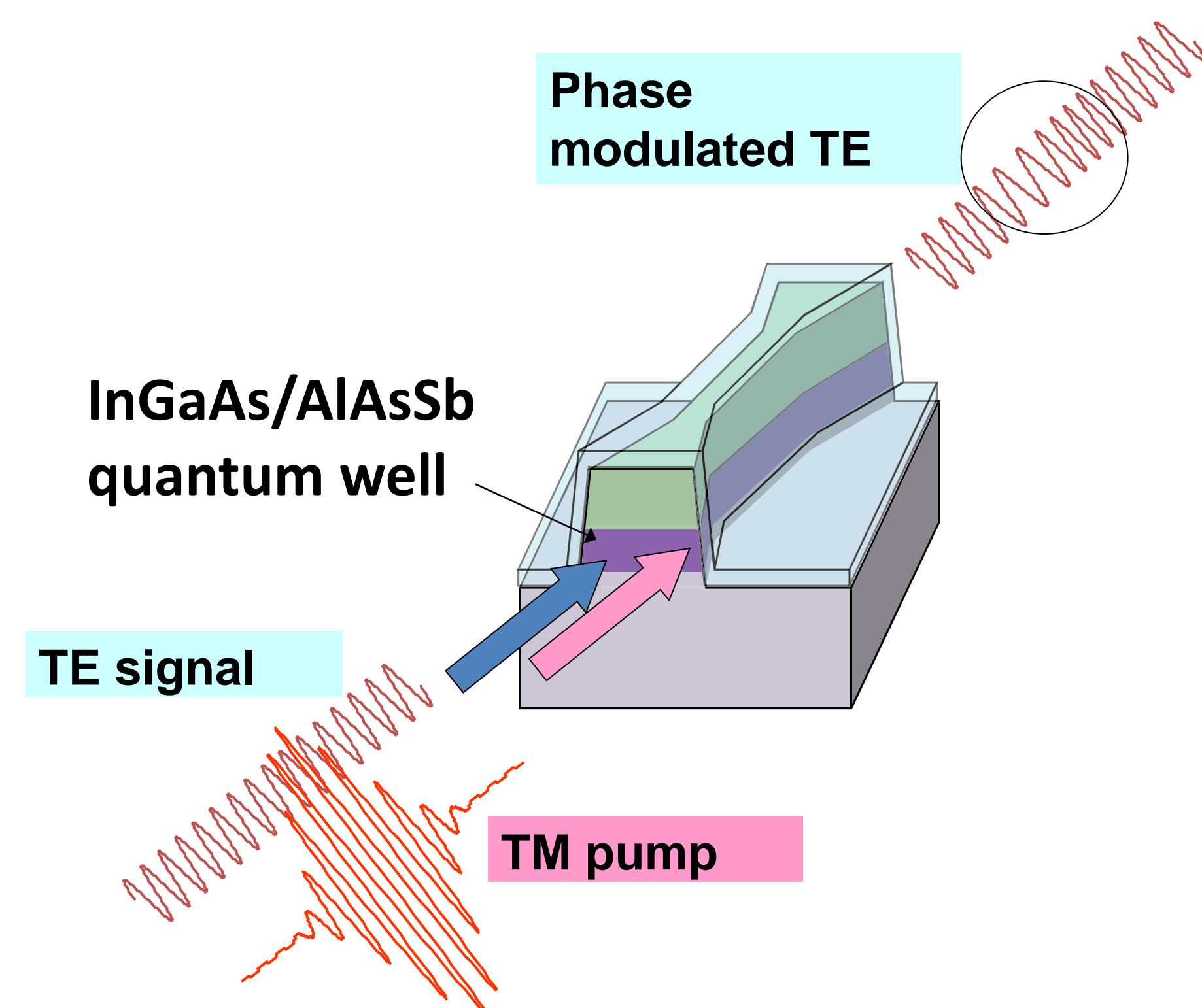


Ultrafast All-optical Gate Switch

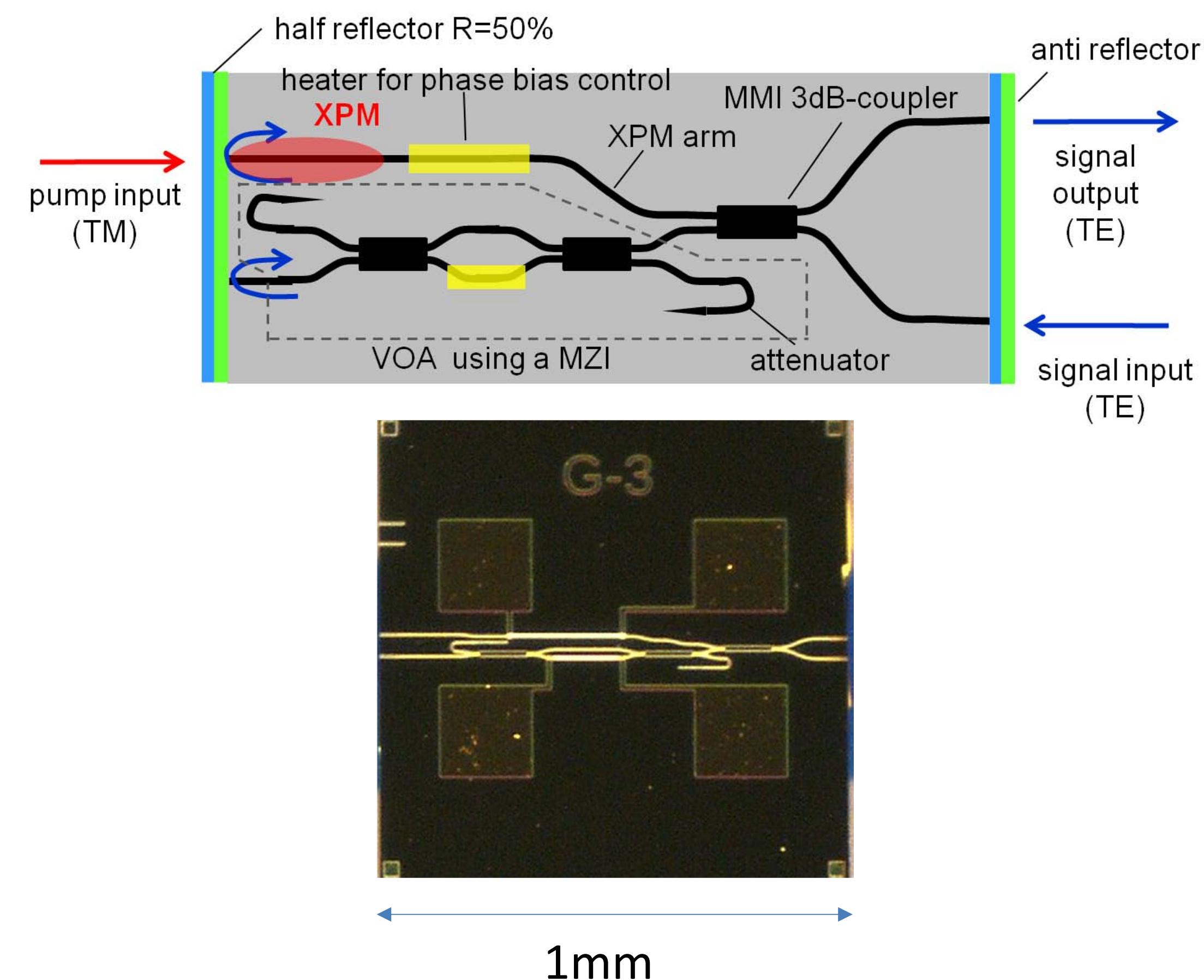
Transmission and Switching Characteristics



Cross phase modulation effect in InGaAs/AlAsSb quantum well associated with intersubband transition



Monolithic switch using Michelson interferometer



Module and DEMUX operation from 160Gb/s to 40Gb/s

