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Ultra-fast integrated transmitter based on silicon photonic and WDM technology in detector instrumentation

The data throughput of future detector readout systems is ever increasing. To satisfy the requirements of ultra-broad bandwidth, we propose a high-performance optical link utilizing wavelength-division multiplexing (WDM). The key components are monolithically integrated silicon photonic transmitter units, each with four parallel channels. With more parallel channels and more advanced modulation format, the bandwidth could achieve several Tbit/s potentially.

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