Polarization Division Multiplexing Emulator : PDME
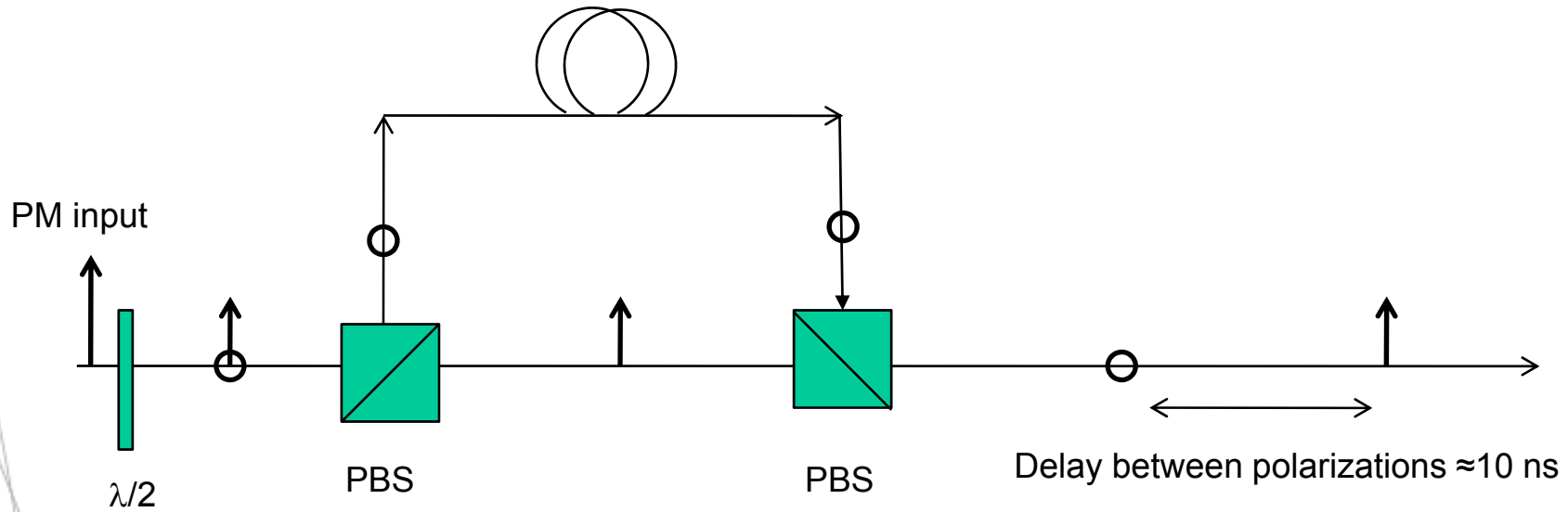
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Principle drawing

PM input

$\lambda/2$

PBS

PBS

Delay between polarizations ≈10 ns

Features

- Low insertion loss (1 dB)
- Good balancing (0.5dB)
- Options available
  - » Variable optical attenuator on one arm
  - » Shutter on one arm
  - » Variable delay line on one arm (motorized version available too)
  - » Access to long travel with pigtails to add any fibered PM components

Applications

- Polarization division multiplexing
    - » For complex QAM modulation emulation
- Polarization Mode Dispersion emulation