

## Polarization effect: Comparison of different Laser Sources

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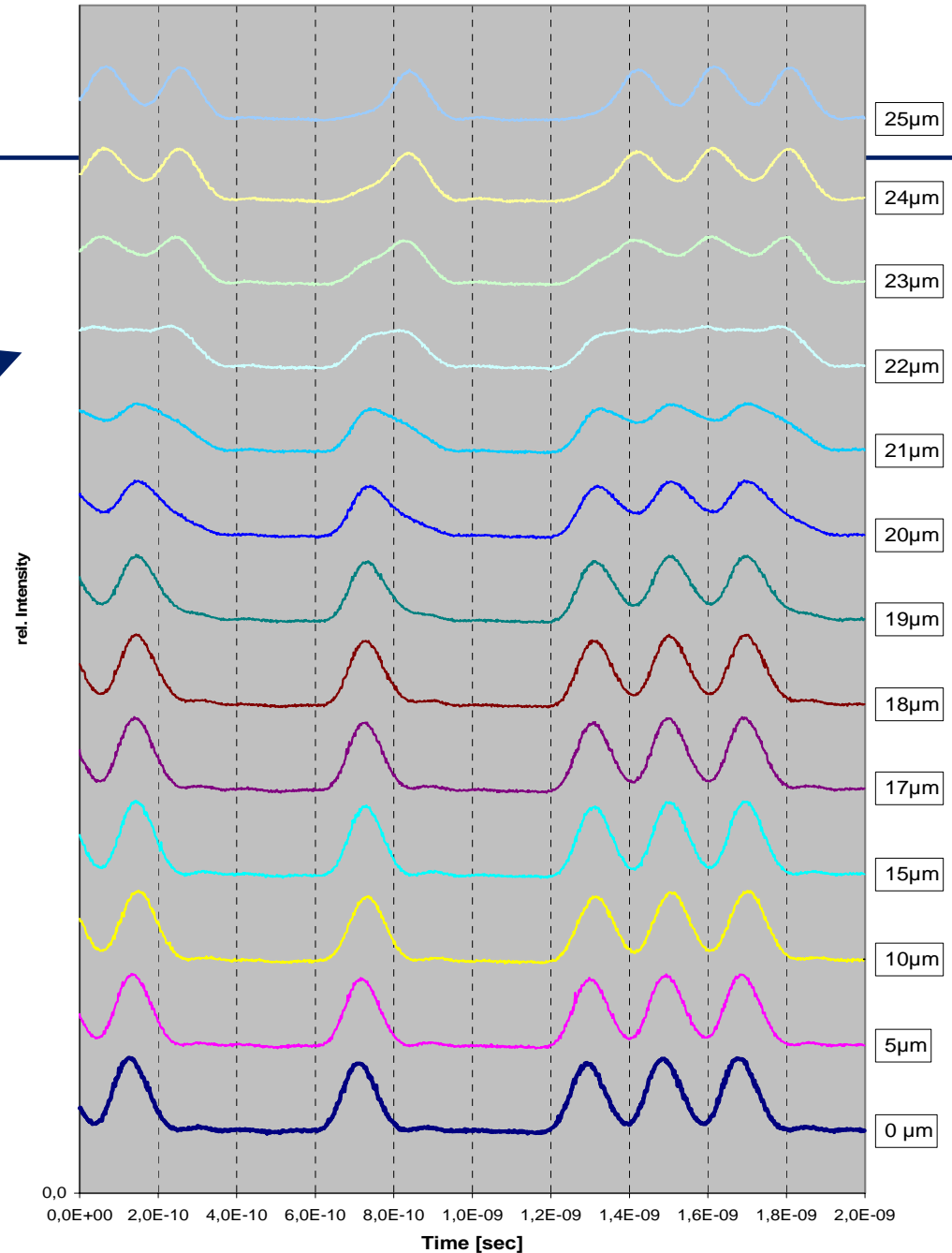
- Transmission over 270m OM1 fiber with a kink with controlled offset launch in the area of the kink (about 21 $\mu$ m)
  
- Pattern records for three lasers: DFB, VCSEL, FP
  - Adjustment of offset to the situation where a double pulse of equal height is observed with one polarization.
  - Comparison of patterns for both orthogonal polarizations.
  
- Result:
  - DFB and VCSEL are similar.
  - FP Laser shows different pattern. This may be caused by larger number of modes (wavelength) of the laser.

# Offset Area of Kink-Fiber for the Measurement



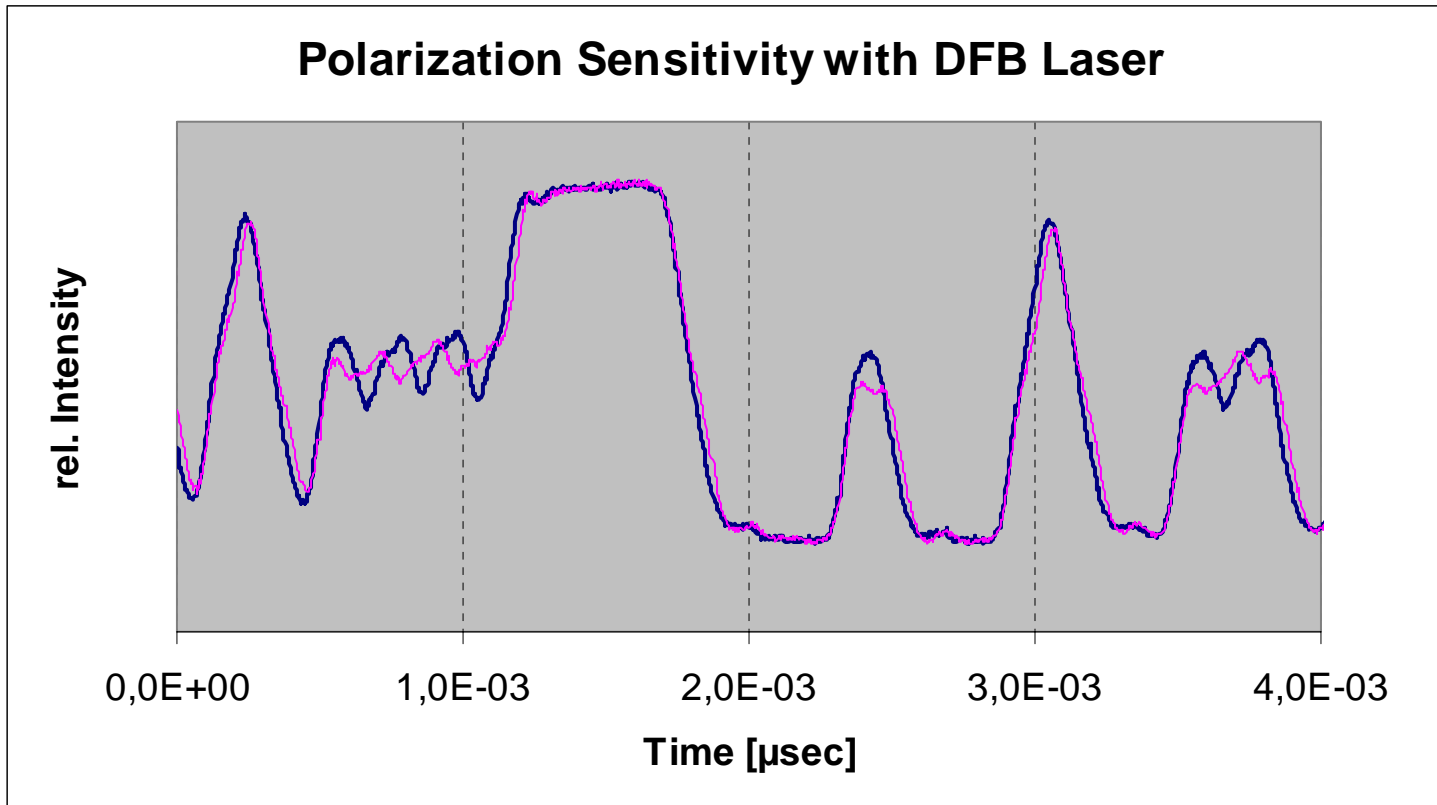
Offset area for the measurement

### 270m OM1 Fiber "DMD" Pattern Response



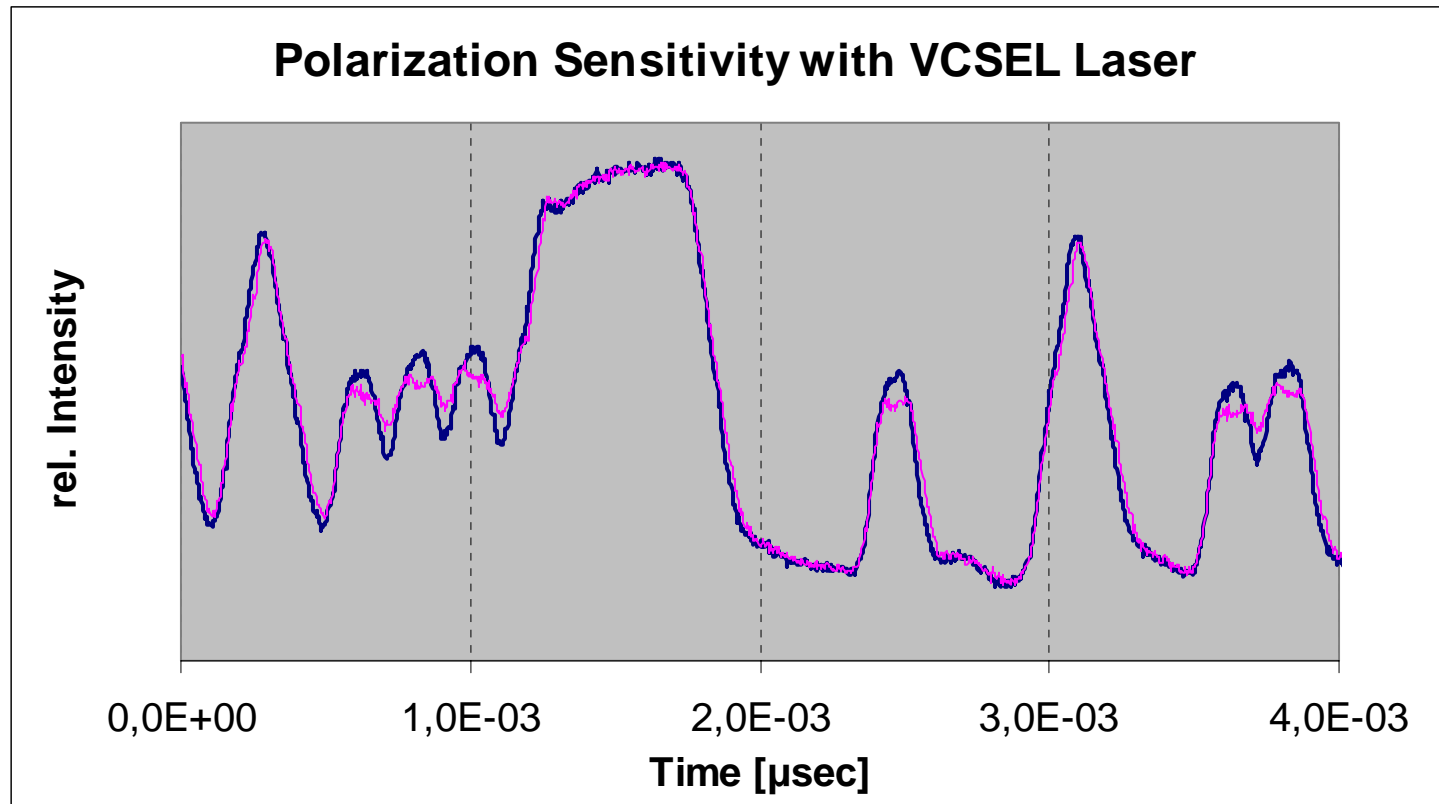
# Fiber with a Kink

## Polarization Effect with DFB-Laser



# Fiber with a Kink

## Polarization Effect with 1300nm- VCSEL



# Fiber with a Kink

## Polarization Effect with FP Laser

