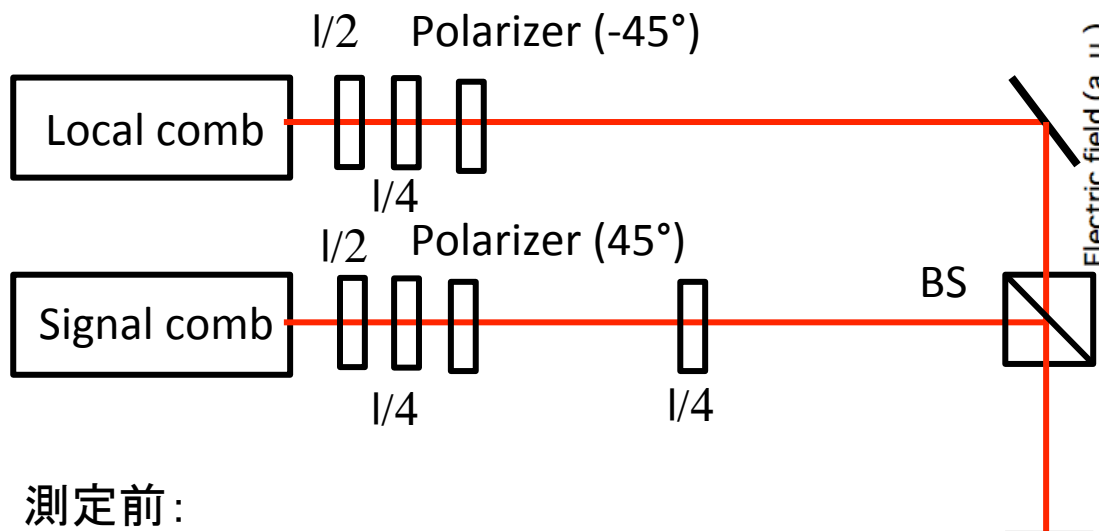


# 研究の進捗状況

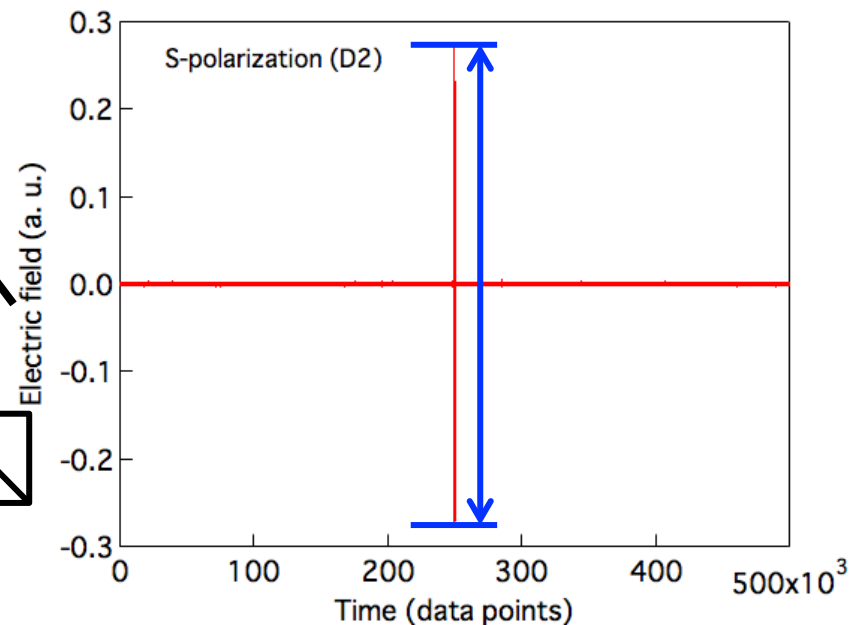
謝 宜達

# QWP測定

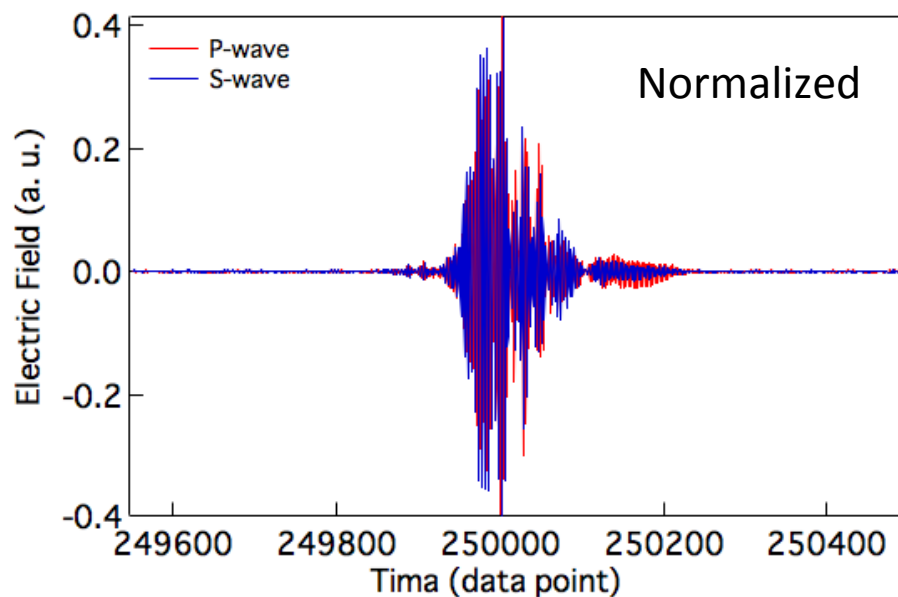
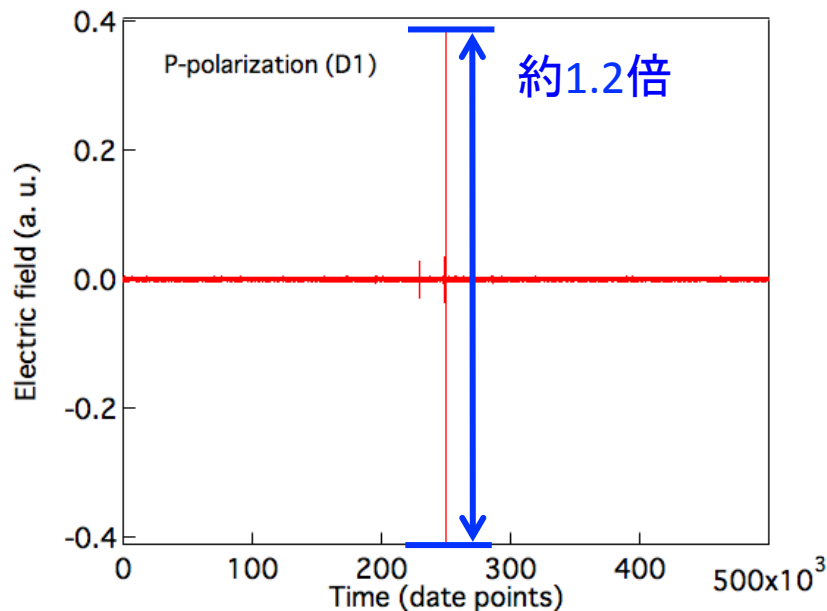
実験装置:



測定前:



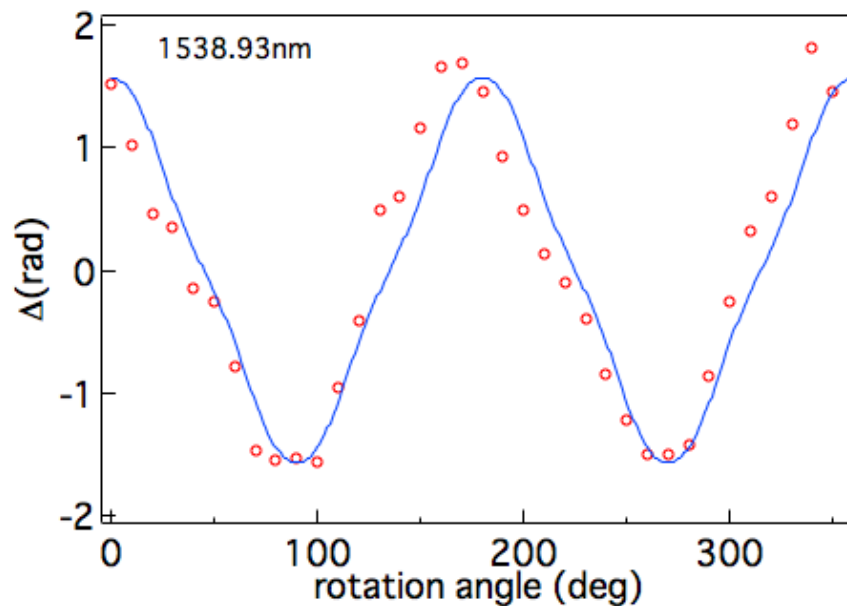
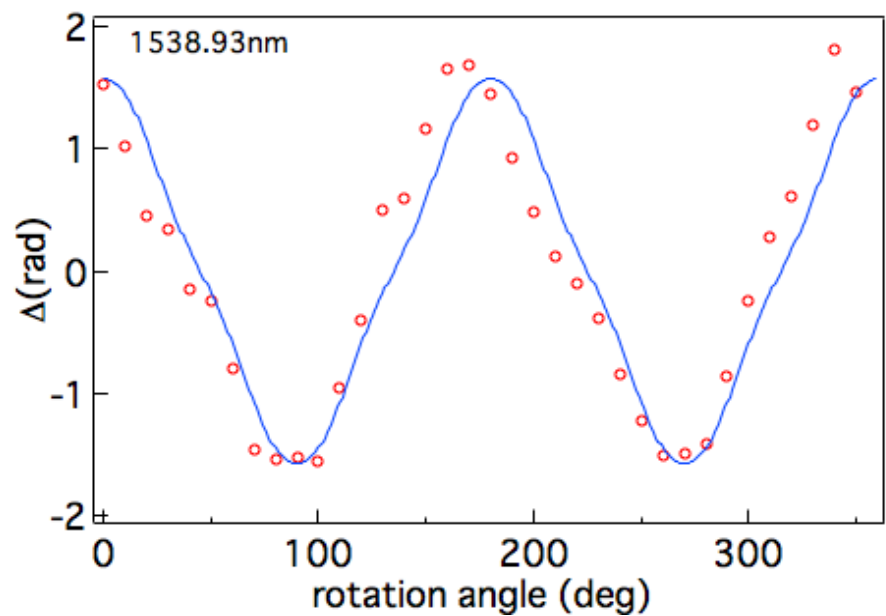
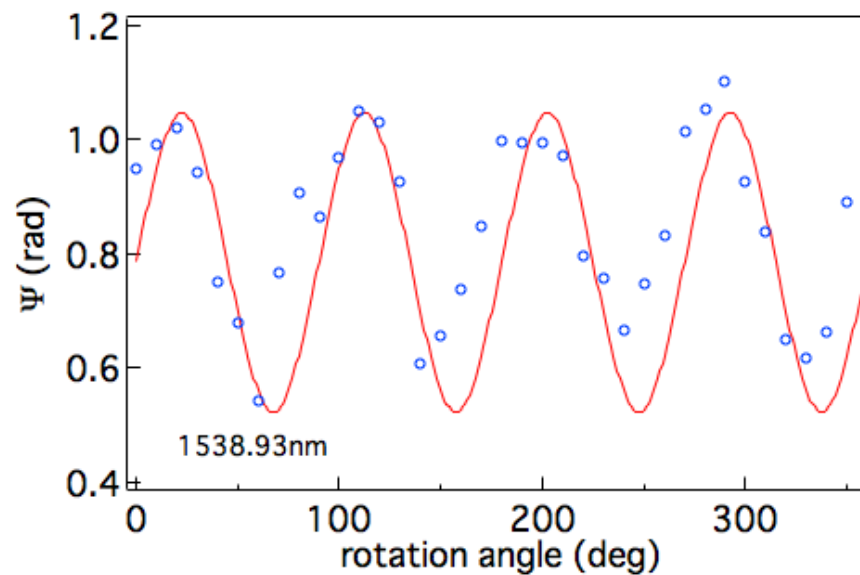
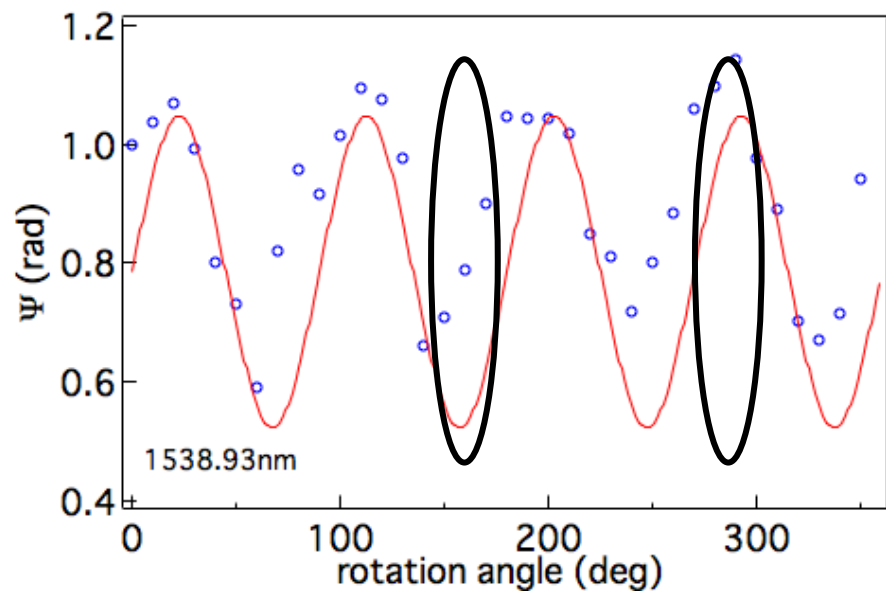
測定前:



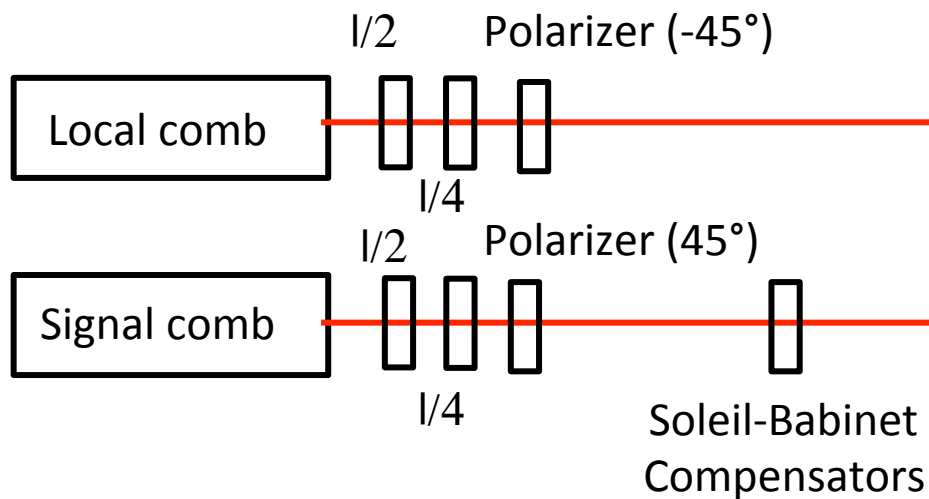
QWP測定結果:

振幅と位相スペクトルを確認

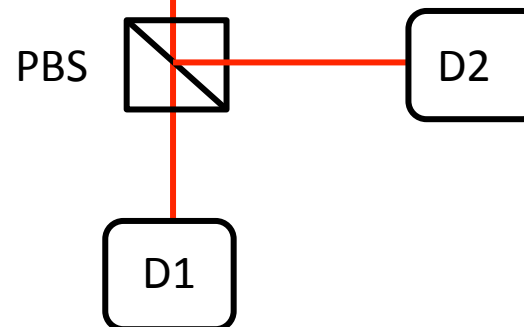
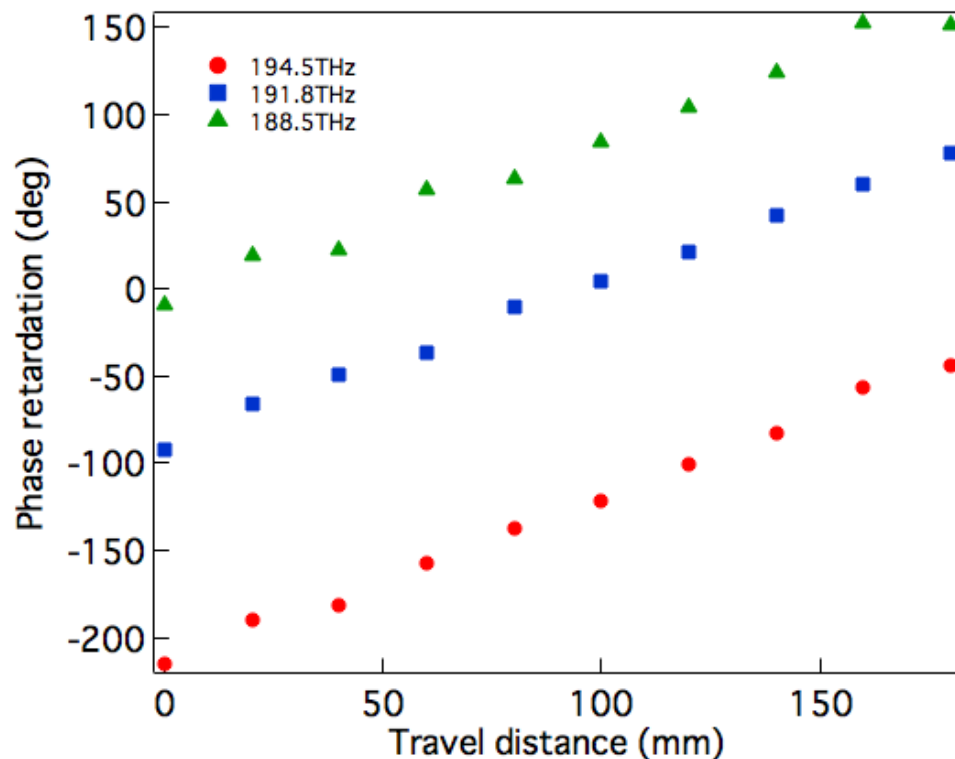
Normalized



# Soleil-Babinet Compensators



位相差と周波数と距離 三次元



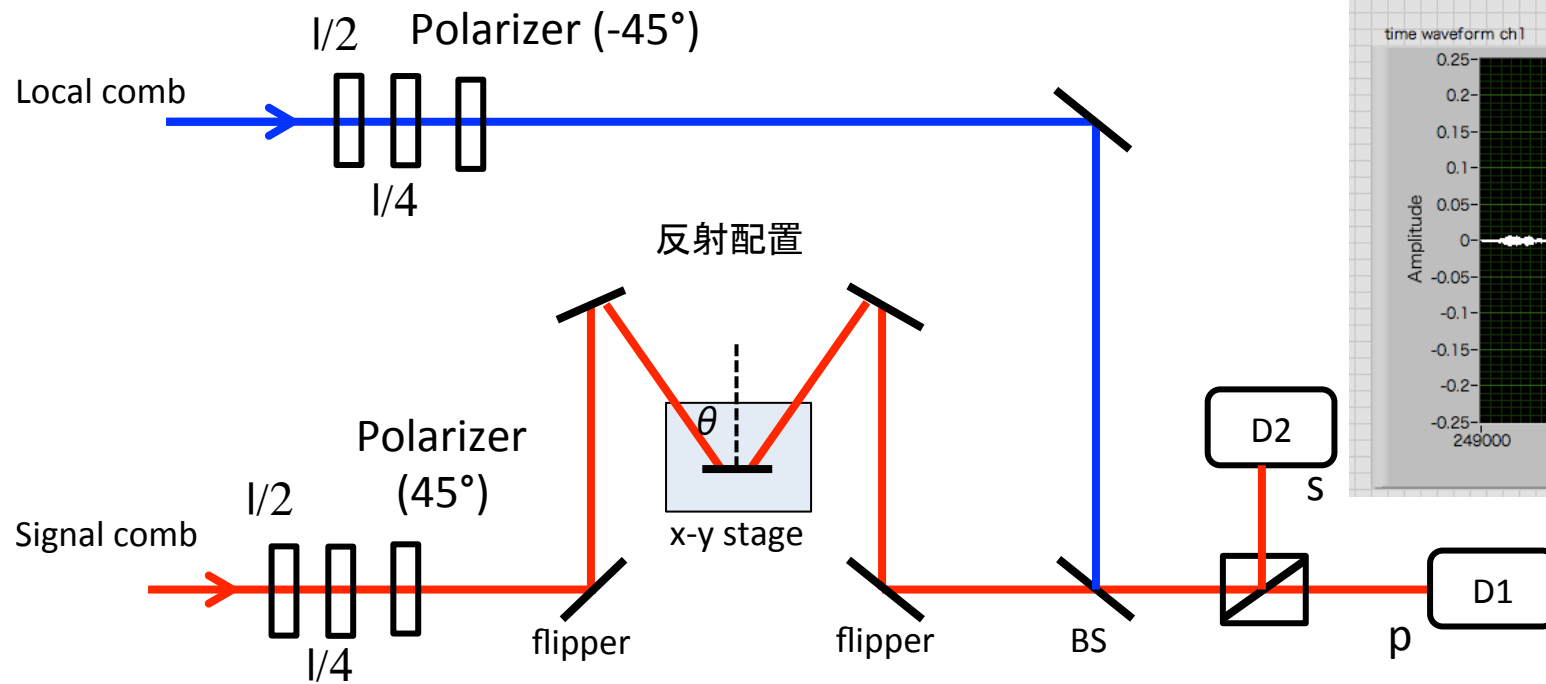
$f_{\text{rep(sig)}}: 48350213.0043859\text{Hz}$

$f_{\text{rep(LO)}}: 48350179.9817047\text{Hz}$

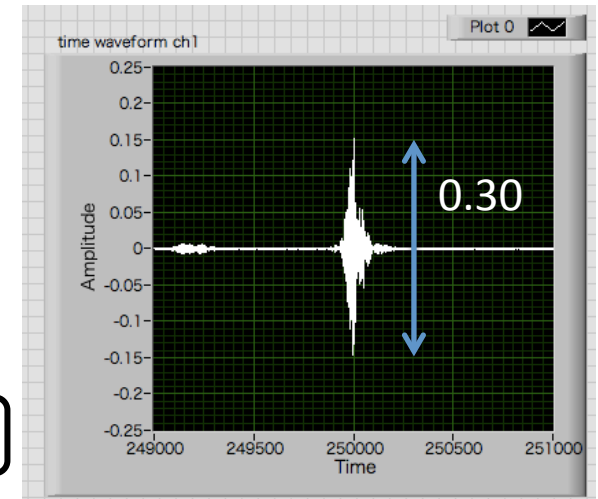
$Df: 33.0239362757913\text{Hz}$

バビネソレイユ角度:  $85^\circ$

# SiO<sub>2</sub>測定



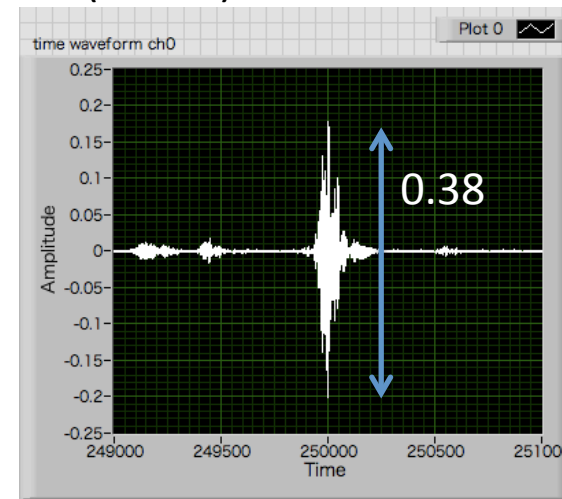
D2(S成分)



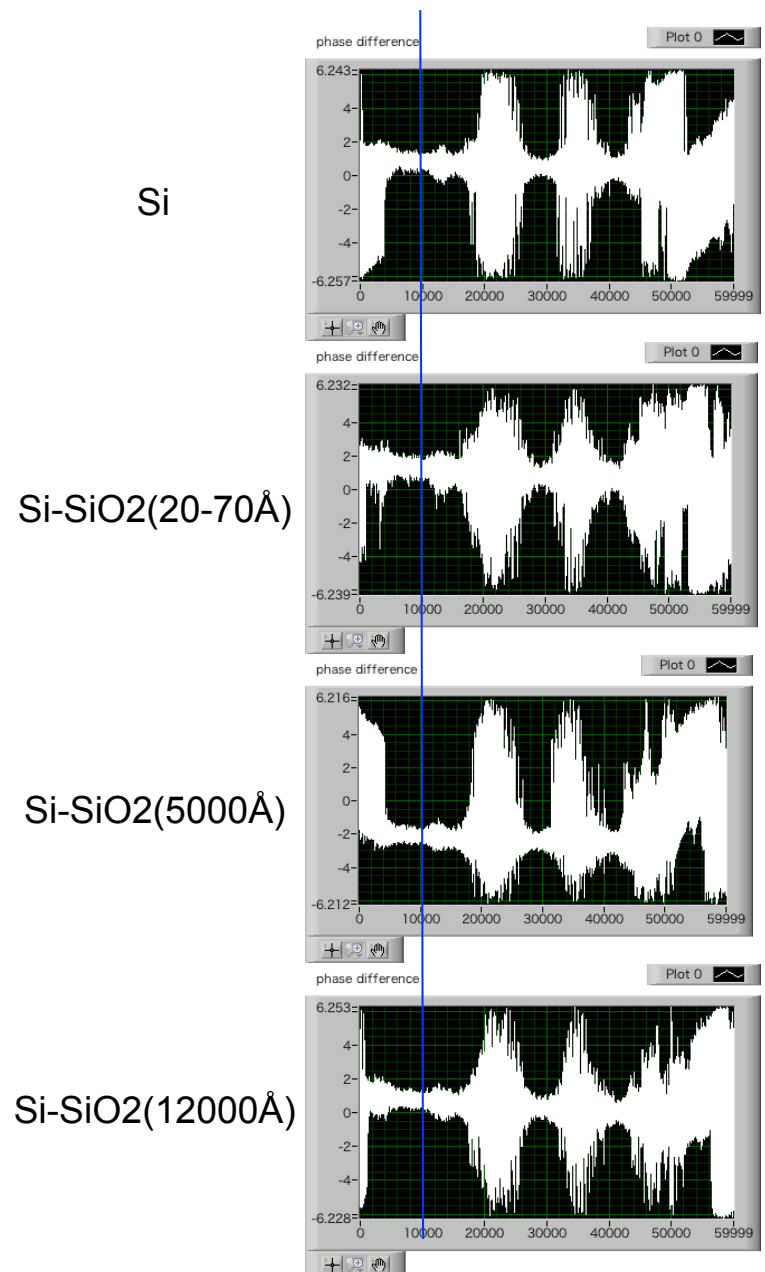
## Experimental condition

Sample	SiO <sub>2</sub> layer on Si substrate
Incident angle [deg.]	≒ 55~60
averaging number of interferogram	100

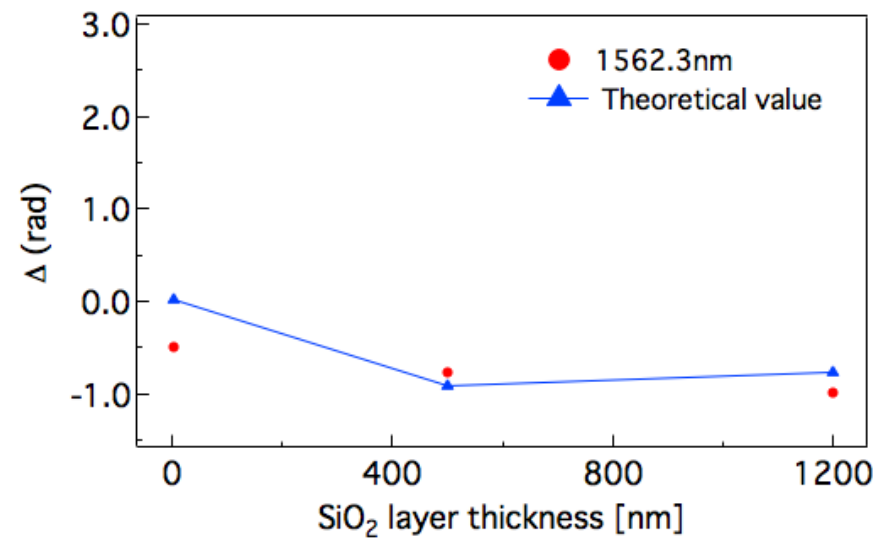
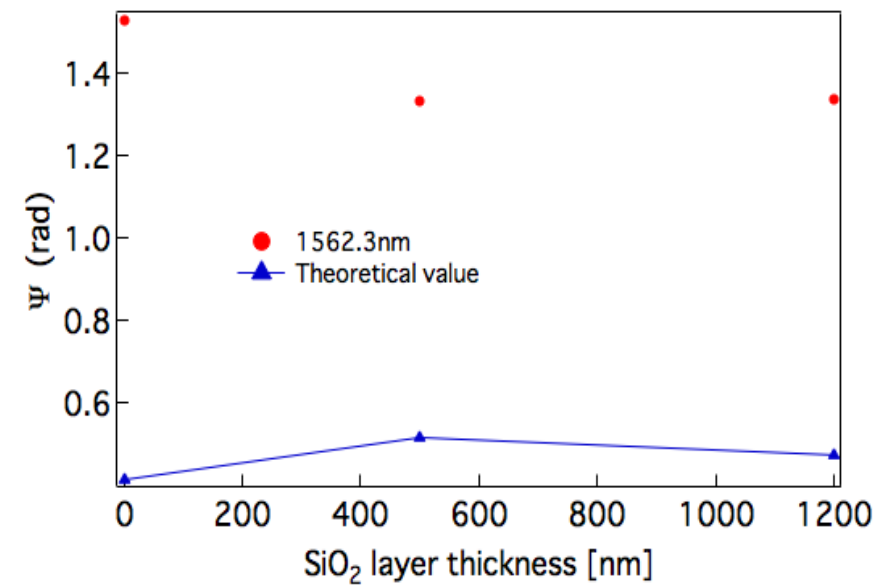
D1(P成分)



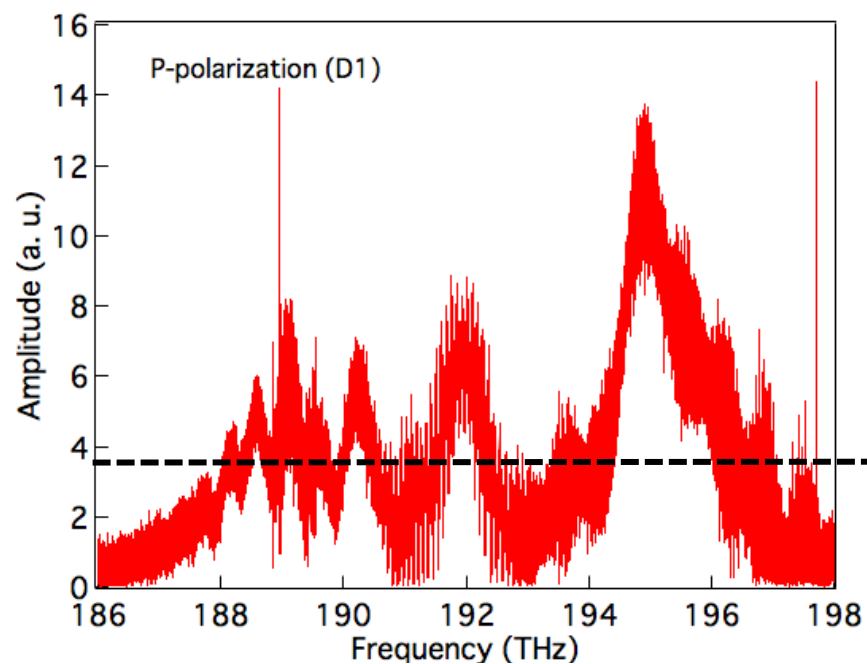
## P-S phase difference



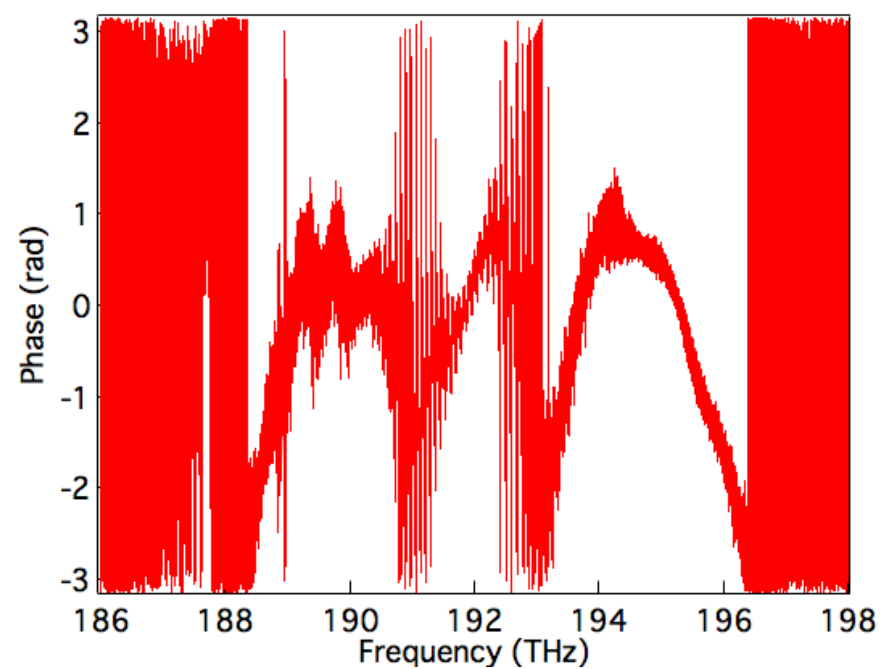
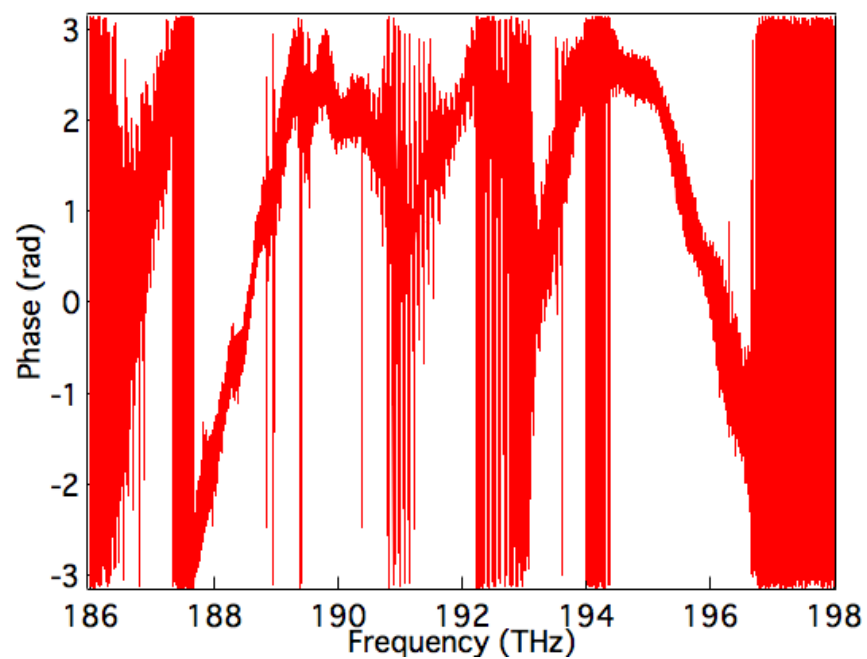
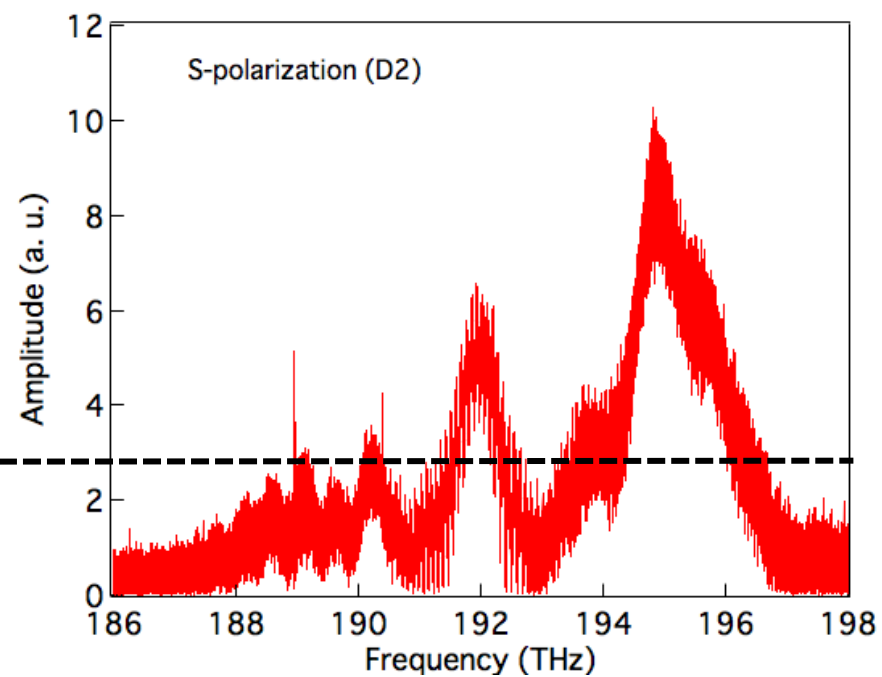
## Experimental result



P偏光:



S偏光:



# まとめ

- 産総研との共同実験でデュアル光コムエリプソンの原理を検証した
- 位相差(D)はほぼ理論値と一致しているが、振幅比角( $\gamma$ )は誤差がある