# Analysis Meeting

## April 19, 2005

Target Analysis for Spin-Duality

- Worked on finalizing calibration constant and systematic errors.
  - Thermal polarization of water: $\sigma_{\rm syst} = 1\%$
  - Pre-amp gain: $\sigma_{\rm syst} = 0.7\%$
  - Lock-in and gradient corrections: $\sigma_{\rm syst} = 0.5\%$
  - Water constant: $\sigma_{\rm stat} = 1.0\%$
- Need to combine all errors together for final error.

| Cell | $C_w$ |
|---|---|
| Duke | 0.07274 |
| Exodus 1 | 0.07281 |
| Exodus 2 | 0.07259 |

GDH Analysis

- Released first version of optics technote. (limited circulation)
- Waiting for comments
- Began work on acceptance.
  - Read through Xiaodong's code.
  - Process appears to be straight forward.
  - Most of the time will be spent setting the code up for small angle GDH.
  - Need to check, if I need to take any septum position offsets into account.

To Do:

- Continue acceptance.
- Finalize target analysis for Duality.
- Include Tim's correction for 9° in the Analyzer.
- Add 9° shift correction to tech note.