**Working Title: Optical MIMO modulation techniques under illumination constraints**

1. **Introduction**
   1. Motivation
   2. System ideas
   3. Signaling chain bock diagram
   4. (SOA) modified to Related work
   5. Some other applications
   6. Summary of accomplishments
2. **The SISO channel**
   1. Channel description – digital
   2. Introduce devices, models and parameters, constraints. (incorporate in a)
   3. Noise (incorporate in a)
   4. Performance of digital tech OOK, PPM, VPPM
   5. Performance of analog tech. OFDM, ACO/DCO
3. **MIMO: Exploring the spatial dimension**
   1. Channel with Imaging Receiver?
   2. Spatial Modulation
   3. Spatial Multiplexing
   4. Performance enhancement with imaging receiver
   5. SIS-OFDM
4. **MIMO: Exploring the color dimension**
   1. Multiplexing with colors ACO/DCO with different colors (looked at in final chapter)
   2. IEEE 802.15.7
   3. Performance of CSK
   4. Metameric Modulation (may want to analyze MM with all CBCs generating (1/3 , 1/3)
   5. (Potential to combine CSK with OFDM)
5. **Optical wireless broadcast system design**
   1. SVD-VLC model of system design
   2. Multi-wavelength VLC system design analysis
6. **Conclusions**
   1. Summary of accomplishments
7. **Appendix**

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