**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.
   3. Noise
   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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