A device to allow the remote manipulation of a high power microwave beam was constructed. The instrument functions by using polarization, reflecting a fraction of the microwave, as a function of the rotation angle, into a heat sink.

**Conclusion**

Over the course of this internship and the construction of these two devices I have gained a great deal of understanding about the necessity of documentation and systematic trial and error. In the future the power controller could be configured to run automated experiments and the lock can be set up to run independently of its accompanying console.

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