



University of Nevada, Reno  
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THE GRADUATE SCHOOL

We recommend that the thesis  
prepared under our supervision by

**KYLE S. HARDMAN**

entitled

**Closed Cycle Liquid He Cryogenic Cooler: Toward Controlling Chemical  
Reactions**

be accepted in partial fulfillment of the  
requirements for the degree of

**MASTER OF SCIENCE**

Jonathan D. Weinstein, Advisor

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