

## The Preliminary Thesis Seminar Form

In accordance with the Physics Department rules all students are required to give a Preliminary Thesis Seminar two years after passing the Qualifying Exam. Completion of this form confirms that a Preliminary Thesis Seminar has been presented and that all members of the student's Thesis Committee were in attendance at said seminar.

Student's name: Alexander J. Heilman

ID#: 002626332

Advisor's Name: Qimin Yan

Program Start Date: 9/2022 (Transfer Date)

Qual Date: 9/2022 (Transfer Date)

Preliminary Thesis Seminar Date: 7/23/2025

Thesis Committee Members: Adrien Feiguin, Hai-Ping Cheng, Greg Fiete

Signature of Thesis Advisor:

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Signature of Physics Graduate Director:

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