**Boston University GSO Travel Grant Application**

**I. Personal Information**

**Name:**  Click here to enter text.

**Boston University ID#:** Click here to enter text.

**Department or Program:** Click here to enter text.

**Expected Graduation:** Click here to enter text.

**Check One:** *Master’s**Ph.D.*

**Local Address:** Click here to enter text.

**E-mail:** Click here to enter text.

**Telephone Number:** Click here to enter text.

By signing below, I certify that all of the information provided in this application is true and accurate to the best of my knowledge. I understand that failure to attend the conference and participate in the way outlined in this application, failure to submit original receipts within the specified time period, or non-acceptance of the proposed paper, poster, or panel by the conference named in my application will constitute forfeiture of this award. (**Note**: typing your name in a font of your choosing in the space provided, as well as emailing this application from your personal BU account will serve as an electronic signature for this application.)

Click here to enter text.Click here to enter text.

**Applicant’s signature Date**

**Disclaimer:**

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**II. Conference Information:**

**Title of conference:** Click here to enter text.

**Dates:** Click here to enter text.

**Location:** Click here to enter text.

**Conference website, if applicable:** Click here to enter text.

**Have you already been accepted to the conference?** \_\_\_\_ **Yes** \_\_\_\_ **No**

If yes, please indicate confirmation number or reference number from the conference: Click here to enter text.

**In which of the following ways will you participate in the conference?**

Presenting a paper

Presenting a poster

Participating in a panel

Chairing a session or panel

**Title of your proposed paper / poster / panel:**

Click here to enter text.

**Have you applied for a GSO Travel Grant in the past?**  **Yes**  **No**

**If yes, were you awarded money for your trip?**  **Yes**  **No**

**Is funding for conference travel available in your department?**

**Yes**  **No**

**If yes, have you applied for departmental funds?**  **Yes**  **No**

**Is funding for conference travel available from your advisor?**

**Yes**  **No**

**If yes, please list amounts/sources below.**

Click here to enter text.

**III. Funding Information:**

Please list alternative sources for conference travel to which you have applied or intend to apply.

**Name of Source:** Click here to enter text.

**Have Applied/Intend to Apply:** Click here to enter text.

**Amount Requested:** Click here to enter text.

**Amount Awarded:** Click here to enter text.

**Name of Source:** Click here to enter text.

**Have Applied/Intend to Apply:** Click here to enter text.

**Amount Requested:** Click here to enter text.

**Amount Awarded:** Click here to enter text.

**Name of Source:** Click here to enter text.

**Have Applied/Intend to Apply:** Click here to enter text.

**Amount Requested:** Click here to enter text.

**Amount Awarded:** Click here to enter text.

Please list expenses that you will incur during conference participation.

**Travel:**

**Room: $**Click here to enter text. **×** Click here to enter text.

**Total: $**Click here to enter text.

**Board: $**Click here to enter text. **×** Click here to enter text.

**Total: $**Click here to enter text.

**Ground: $**Click here to enter text. **×** Click here to enter text.

**Total: $**Click here to enter text.

**Air: $**Click here to enter text.

**Conference Registration, abstract fees: $**Click here to enter text.

**Grand Total: $**Click here to enter text.

**IV. Personal Statement (1000 word maximum. Describe your research and its importance, your current academic situation, and how this experience will help your career aspirations. This should be tailored to non-specialists) Please do not include your name in this section:**

I am in my third year of graduate school working in field of theoretical quantum condensed matter physics. I spent my time in studying quantum physics, which describes behavior of really small objects like electrons and protons

**V. Abstract (Insert the abstract with which you applied to the conference. If you didn’t apply using an abstract, write a summary of the work you plan to present. 1000 word maximum.) Please do not include your name in this section:**

Noise and decoherence caused by the environment are two major challenges in applying adia-

batic protocols to quantum technologies. Counter-diabatic (CD) driving protocols, which are also

known as ”shortcuts-to-adiabaticity,” provide powerful alternatives for controlling a quantum sys-

tem. These protocols allow one to change Hamiltonian parameters rapidly while still mimicking

adiabatic dynamics. They have been shown to work well for a wide variety of systems, but it is

exponentially hard to find exact CD protocols for non-integrable quantum many-body systems.

We study a method to develop approximate CD protocols which avoids exponential sensitivity

to perturbations of the Hamiltonian. Our finite-size scaling of CD Hamiltonians reveals remark-

able differences between integrable and non-integrable quantum systems. We identify numerically

different scaling regimes and show how they arise from the eigenstate thermalization hypothesis.