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UO Email Barkeloo@UOregon.edu Major Physics

Degree Level (check one): ☐ Masters ☒ Doctoral Date March 5, 2020

This is to advise that my thesis/dissertation will include one or more of the items below:

I will include material that I have published with co-authors

Includes unpublished co-authored material: ☒

Includes previously published co-authored material: ☐

Attach a written statement describing the extent of your contribution as the thesis/dissertation author for each chapter that has co-authors, identifying the specific chapter by number or name, the names of the co-authors, the nature of the material, and why you should be allowed to submit this material as part of your thesis/dissertation

I will include previously published material that I have written but is not co-authored

Includes previously published material (no co-authorship): ☐

Attach a written statement identifying the specific chapter by number or name and the publication in which the material can be found

All or part of my thesis/dissertation will be prepared according to a journal format style

Journal format style: ☐

Attach a separate page that specifies the journal name and identify which chapter corresponds to each selected journal. Attach a copy or provide a URL for the formatting regulations of each journal style that you have selected or provide a reprinted article from the selected journals as an example

Committee Approval: Obtain only your advisor's signature of approval in the case of Journal Format Style. Obtain signatures of all committee members when including Unpublished or Published Material as described above

I approve this student's request to use journal format style and/or include unpublished articles or published articles which have been co-authored as described above.

Printed name: James E. Brau

Signature: James E. Brau

Printed name: Spencer Chang

Signature: Spencer Chang

Printed name: David Strom

Signature: David Strom

Printed name: Dev Sinha

Signature: Dev Sinha

Printed name: \_\_\_\_\_

Signature: \_\_\_\_\_

Printed name: \_\_\_\_\_

Signature: \_\_\_\_\_

Graduate School Decision : ☐ Approved ☐ Denied

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Dean or Designee

Notes:

Jason Barkeloo

In Chapters 5 (Search Strategy) and 6 (Analysis And Results) I include unpublished co-authored material. This material includes my contribution to the analysis including development of the entire analysis framework and pipeline from signal creation to background studies and neural network development. In addition, my contribution includes signal-background optimization and kinematic region development taking advantage of common background samples produced by the ATLAS Collaboration and the data gathered using the ATLAS detector. The co-authors of the analysis are listed as the ATLAS Collaboration (the most up to date list at the time of the request can be found at <https://inspirehep.net/record/1782650>).