



Student Name Drew Morrill Student ID *****

Doctoral Degree in Physics

Thesis Title:

A 3 μm wavelength optical parametric chirped pulse amplifier for soft X-ray generation

Have you performed research involving human subjects which requires approval from the Institutional Review Board (IRB)? Yes No

IRB Protocol Number _____

Have you used live animals, animal tissue, or observational animal work which requires approval from the Institutional Animal Care and Use Committee (IACUC)? Yes No

IACUC Protocol Number _____

Attach the final copy of thesis/dissertation for committee review. While formatting changes may be requested by the Graduate School, the content of the attached document should be final.



Approvals:

Committee Chair Name Margaret Murnane

Signature  Date Signed 4/12/2024

Committee Member Name Scott Diddams

Signature  Date Signed 4/12/2024

The final copy of this thesis has been examined by the signatories, and we find that both the content and the form meet acceptable presentation standards of scholarly work in the above-mentioned discipline.