Graduate School
UNIVERSITY OF COLORADO **BOULDER**

Thesis Approval Form

Student Name _Carlos Enrique Pinilla-Suarez_____ Student ID_*********_____

Doctoral_____ Degree in _Mathematics_____

Thesis Title:

Hodge decomposition for the Sobolev space H^l on a space form of nonpositive sectional curvature

Have you performed research involving human subjects which requires approval from the Institutional Review Board (IRB)? ___ Yes _X_ 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 _X_ 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 _Magdalena Czubak_____

Signature _Magdalena Czubak_____ Date Signed _4/13/2021_____

Committee Member Name _Chi Hin Chan_____

Signature _Chi Chan_____ Date Signed _4/13/2021_____

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.