

FLORIDA STATE UNIVERSITY
COLLEGE OF ARTS & SCIENCES

LARGE EDDY SIMULATIONS TO INVESTIGATE THE FUNDAMENTAL FLOW PHYSICS
OF SUPERCRITICAL CARBON DIOXIDE TURBULENT JETS

By
JULIA REAM

A Dissertation submitted to the
Department of Mathematics
in partial fulfillment of the
requirements for the degree of
Doctor of Philosophy

2023

Julia Ream defended this dissertation on July 11, 2023.

The members of the supervisory committee were:

Mark Sussman

Professor Co-Directing Dissertation

Marc Henry de Frahan

Professor Co-Directing Dissertation

Bryan Quaife

University Representative

Aseel Farhat

Committee Member

Sanghyun Lee

Committee Member

The Graduate School has verified and approved the above-named committee members, and certifies that the dissertation has been approved in accordance with university requirements.