

FLORIDA STATE UNIVERSITY
COLLEGE OF ARTS AND SCIENCES

TOWARDS HIGHER THEORETICAL PRECISION FOR ELECTROWEAK BOSON
PRODUCTION WITH b -JETS AT HADRON COLLIDERS

By
DIOGENES FIGUEROA

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

2021

Diogenes Figueroa defended this dissertation on July 2, 2021.
The members of the supervisory committee were:

Laura Reina
Professor Directing Dissertation

Phillip Sura
University Representative

Takemichi Okui
Committee Member

Rachel Yohay
Committee Member

Jorge Piekarewicz
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.