## HARVARD UNIVERSITY Graduate School of Arts and Sciences



## DISSERTATION ACCEPTANCE CERTIFICATE

The undersigned, appointed by the

Department of Chemistry & Chemical Biology
have examined a dissertation entitled:

Electronic Spectroscopy Outside of the Condon Approximation

presented by: Joseph Sean Cahill Goodknight

candidate for the degree of Doctor of Philosophy and hereby certify that it is worthy of acceptance.

Signature

Typed name: Professor Alán Aspuru-Guzik

Signature

Typed name: Professor Dudley Herschebach

Signature

Typed name: Professor Eric Heller

Date: 17 July 2017