

**ANALYTICAL STUDY OF ACOUSTIC WAVES
AND INSTABILITIES IN COMPACT
ASTROOBJECTS**

**A thesis submitted in partial fulfilment of the requirements
for the degree of**

Doctor of Philosophy

**Sayanti Dasgupta
Registration No: TZ201058 of 2019**



**Department of Physics, School of Sciences
Tezpur University
Napaam, Tezpur-784028
Assam, India
May, 2023**