

CERTIFICATE

This is to certify that the project report entitled “DETECTION OF SUPERMASSIVE BLACK HOLE BINARIES FROM EINSTEIN RINGS” is a bona fide work carried out by **Sanjay N K (218125)**, under the guidance of **Dr. Nilakanthan V K** in the **Department of PG Studies and Research in Physics, St Aloysius College (Autonomous)**.

The same is being submitted to the Post Graduate Department of Physics, St Aloysius College (Autonomous) in partial fulfilment of the requirements for the award of **Master of Science-Physics**. No part of this thesis has been presented for the award of any other degree.



Dr. Chandrashekhara Shetty T
Head of the Department
Dept of PG studies and
research in Physics,
St. Aloysius College (Autonomous),
Mangalore.

Head
Department of Post - Graduate
Studies & Research in Physics
St Aloysius College
(Autonomous)
Mangaluru - 575 003



Dr. Nilakanthan V. K
Assistant Professor
Dept of PG studies and
research in Physics,
St. Aloysius College (Autonomous),
Mangalore.

