

RESEARCH PROPOSAL

I did my final year M.Sc Physics course at V.O. Chidamabaram College, Tuticorin. As a part of our curriculum, I had an opportunity to carry out a research project titled as “REVEALING THE MECHANISM OF LATE-PHASE STELLAR DEVELOPMENT”. My research project is based on Astrophysics field in M.Sc physics. The objective of my research was to determine parameters of carbon-rich asymptotic giant branch (AGB) stars in their final evolutionary phases. The parameters are temperature, wave length, Colour , and spectral type. My investigation also reveals profiles of mass loss, highlighting the contribution of carbon stars to the formation of the white dwarf and black hole. This work provides a unified framework for interpreting the diverse fates of carbon stars.

As a student from a rural background and studying in an institution with limited facilities, I have faced numerous challenges in my academic and research journey. However, these constraints have only strengthened my determination and problem-solving skills. My primary research interest lies in the energy storage device , and medical physics. I am deeply motivated to contribute to this area. I strongly believe that access to better opportunities and resources will enable me to achieve even greater milestones in my research. Given the right platform, I am confident in my ability to make meaningful contributions to the scientific community. In addition to my academic and research endeavours, I take pride in being a polite, cooperative, and team-oriented individual. I value collaboration and believe that working together enhances the quality and impact of research. Even though my research work has been in the area of energy-related studies, I am deeply passionate about other fields of research as well, particularly statistical mechanics and nanotechnology. I am eager to explore these areas further and contribute meaningfully to scientific advancements

I am a cooperative and team-oriented individual who values collaboration and maintains a pleasant and polite approach in all interactions. I strongly believe that teamwork fosters innovation and enhances research outcomes. Moreover, I am committed to continuously enhancing my skills and knowledge, ensuring that I not only support but also elevate the level of research within a research group.

Sincerely Yours,

(P.Mareeswaran)