

# Mathematics and explanation in astronomy and astrophysics

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## Abstract

The purpose of this paper is to expound and clarify the mathematics and explanations commonly employed in certain notable areas of astronomy and astrophysics. The first section concentrates upon the mathematics employed to represent and understand stellar structure and evolution. The second section analyses two different explanations for the structure of spiral galaxies.

**Keywords:** Astronomy Astrophysics Stars Galaxies Structure Deductive-Nomological

**Subjects:** [General Issues: Structure of Theories](#)  
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