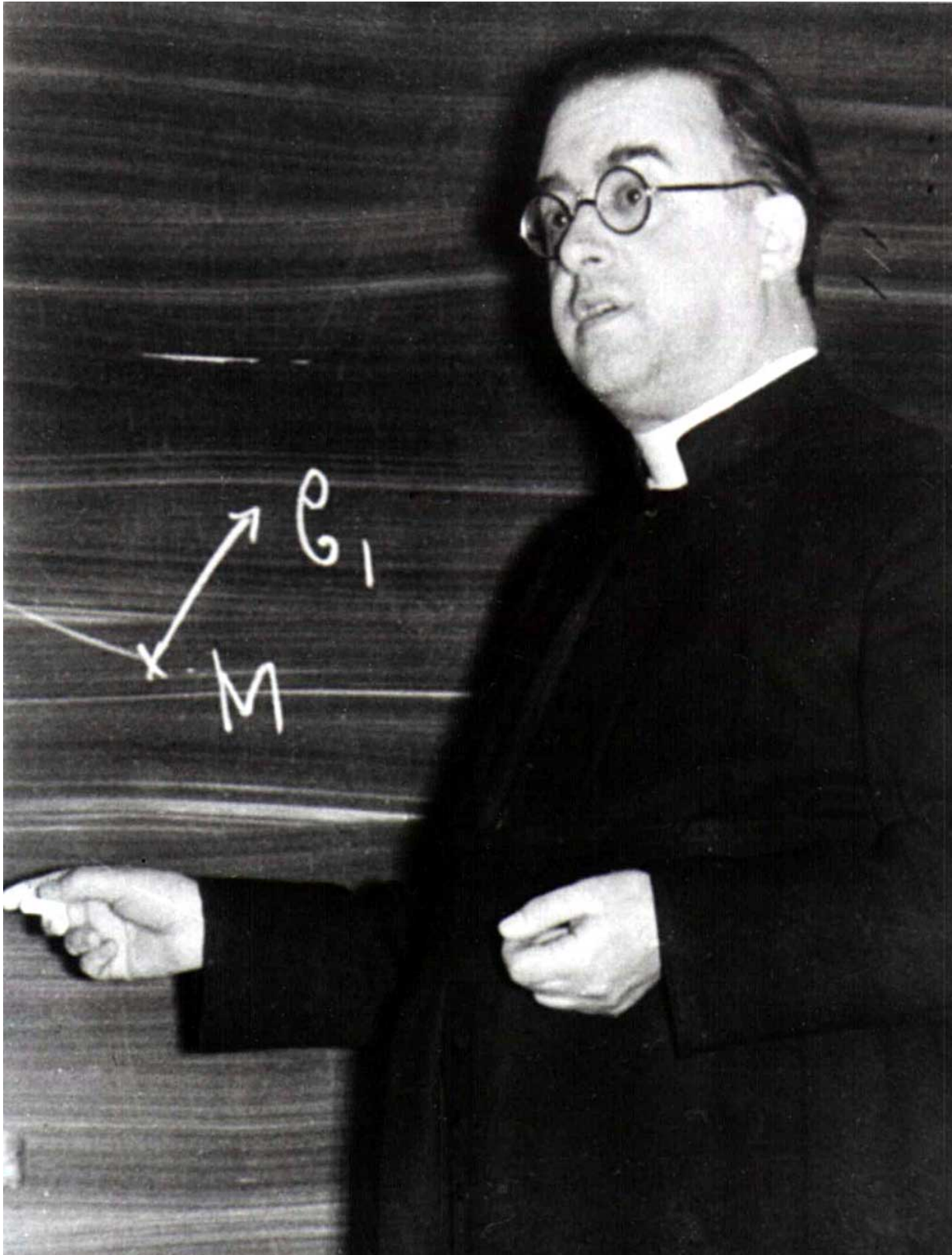


12.1: Introduction

Astronomy Laboratory 12 – Hubble's Law

Module Introduction





Georges Lemaître, Belgian priest, astronomer and professor of physics at the Catholic University of LeuvenLemaître by huidig is in the [Public Domain](#)

Edwin Hubble, of the Hubble Space Telescope fame, developed a relationship between an object's distance and the velocity it appears to be moving away from us that is still in use today. In this lab, you will explore Hubble's Law and implications of the law in understanding the Universe. ⁽¹⁾

Objectives

At the end of this module, students will be able to:

- Calculate the age of the universe using Hubble's Law
- Model the expanding universe
- Make hypotheses based on the model and calculations ⁽¹⁾

Outcomes

The material in this module includes content designed to meet the following course outcomes:

- Explain and apply major concepts in astronomy including planets, satellites, stars, meteors, galaxies, and theories of the universe.
- Demonstrate knowledge of scientific method.
- Communicate scientific ideas through oral or written assignments.
- Interpret scientific models such as formulas, graphs, tables and schematics, draw inferences from them and recognize their limitations.
- Demonstrate the ability to think critically.
- Demonstrate the ability to use scientific and quantitative reasoning. ⁽¹⁾

Assigned Readings

Learning Unit 12

Assignments

- Hubble's Law and the Age of the Universe Exercise
- Expanding Universe Model Exercise
- Lab 12 Quiz ⁽¹⁾

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