

4.1: Module Introduction

Red, orange, yellow, green, blue, indigo-violet mystic vision arcs
Red, orange yellow green blue indigo follow graceful violet glows
Lively prism light enchanting rainbow delights brightly dance then hides
Misty promise made sunny days ahead storm's ending I see ROY G BIV

Lorraine Margueritte Gasrel Black
Rainbow in Motion Haiku

This module covers visible light as well as other forms of the electromagnetic spectrum, which provide us information about the Universe. An object's spectrum can also provide an incredible amount of information, from the object's velocity to its distance.

Objectives

Upon completion of this module, the student will be able to:

- Describe light and the electromagnetic spectrum
- Recognize Wien's Law and Stefan-Boltzmann Law
- Differentiate among Continuous, Emission Line, and Absorption Line spectrums
- Describe Doppler Effect, both in sound and light
- Identify the astronomical implications of spectral observations

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