## PHYS-253: Atmospheric Radiation

Application of radiative transfer theory to problems in planetary atmospheres, with primary emphasis on the Earth's atmosphere; principles of atomic and molecular spectroscopy; infrared band representation; absorption and emissions of atmospheric gases; radiation flux and flux divergence computations; radiative transfer and fluid motions; additional application such as greenhouse effect, inversion methods and climate models.

Credits: 3

**Program:** Physics

1 2023-2024