Sodium Spectral Lines: D-Lines and S-Lines

This document provides a summary of the sodium D-lines and S-lines, including their origins, associated transitions, and wavelengths.

# Sodium D-Lines

|  |  |  |
| --- | --- | --- |
| Line Designation | Transition | Wavelength (nm) |
| D₁ | 3p₃/₂ → 3s₁/₂ | 589.0 |
| D₂ | 3p₁/₂ → 3s₁/₂ | 589.6 |

# Sodium S-Lines

|  |  |  |
| --- | --- | --- |
| Line Designation | Transition | Wavelength (nm) |
| S₁ | 3p₁/₂ → 4s₁/₂ | 568.82 |
| S₂ | 3p₃/₂ → 4s₁/₂ | 568.82 |