

Solar Physics 2005-2006: Exercises to Lecture 13

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March 31, 2006

1 Wavelength Dependence of Umbral Intensity

The observed intensity of a sunspot umbra increases toward longer wavelengths (see Fig. 8.27 in Stix's book). Explain this behavior and calculate its wavelength dependence to first order in λ .

2 Problems from Stix's Book

Solve problems 8.13 to 8.15.