

The Role of Spectral Resolution In Measuring The Solar Magnesium II Index

*Marty Snow [marty.snow@lasp.colorado.edu], William McClintock, and Tom Woods,
Laboratory for Atmospheric and Space Physics, University of Colorado, Boulder.*

The emission from Mg II h & k relative to the nearby photospheric continuum is an important tracer of solar variability throughout the UV and EUV. SORCE SOLSTICE has a resolution of 0.1 nm at 280 nm, and clearly resolves the emission cores of these broad lines. The improved spectral resolution allows us to make a more precise measurement of the index, and therefore measure changes in the index on shorter timescales than is possible with a lower resolution instrument.