Solar Irradiance and Luminosity Variations from Active Regions

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Abstract. It is clear that photospheric magnetic fields have a complicated effect on the solar irradiance. Do magnetic features behave like "holes" into the photosphere or is there a relationship between the deep convection zone and the irradiance/luminosity changes associated with magnetic surface perturbations? The key to this question probably lies in precise differential solar photometry to be obtained from future space- or ground-based observations.

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