



Earthshine measurements and extrasolar planet spectral retrieval

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It is foreseen that in the near future, we will be able to measure the light from extrasolar planets similar to the Earth. When these data become available, a truly inter-disciplinary approach to their analysis will be necessary in order to understand the physical properties of these worlds based on globally-averaged measurements, such as the earthshine observations provide. In this task, empirical observation of the Earth (as the only inhabited planet that we know of) and the rest of the planets of the solar system will be our guide to interpret the observations. Here I will review what information these observations of the Earth, seen as a planet would reveal to a distant observer.