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Atmospheric Chemistry and Physics Discussions

Interactive comment on "Extreme Saharan dust event over the southern Iberian Peninsula in september 2007: active and passive remote sensing from surface and satellite" *by* J. L. Guerrero-Rascado et al.

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The paper presents an extreme Saharan dust outbreak that took place over the southern Iberian Peninsula. The authors analyse in detail results from different platforms including both active and passive data from ground-based and satellite instrumentation, monitoring this event even at night time using a star photometer and a Raman LIDAR system. In addition, they approach to a radiative study by means of heating rates computations, which allows estimating the atmospheric stability in presence of aerosols. To my taste this work is loable. However, the paper has two slack points. The

most important one is the paper presents vaguely some results about the radiative impact. Therefore, a more extended discussion about heating rates should be included. Moreover, the incorporation of radiative forcing computations could enrich greatly the discussion.

Interactive comment on Atmos. Chem. Phys. Discuss., 9, 15673, 2009.

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