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Interactive comment on "Photopolarimetric retrievals of snow properties" *by* M. Ottaviani et al.

Anonymous Referee #1

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In the paper "Photopolarimetric retrieval of snow properties" by M. Ottavani et al. airborne RSP measurements over snow and ice surfaces were analysed. Retrieving RSP measurements, optimal crystal parameters of the developed polarized reflectance model for snow and ice surfaces were estimated.

In the conclusions authors write: "The spectral dependence of the polarized reflectance is larger than for soil or vegetated surfaces, but nonetheless small". Figure 1 (second row) demonstrates strong spectral dependence of the surface polarized reflectance: polarized reflectance at 440nm can be more than 2 times larger than polarized reflectance at 864nm. Authors should make more clear statement about the spectral dependence of polarized reflectance for snow and ice surfaces.

Interactive comment on The Cryosphere Discuss., 9, 3055, 2015.