

Interactive comment on “Temperature lidar measurements from 1 to 105 km altitude using resonance, Rayleigh, and Rotational Raman scattering” by M. Alpers et al.

Anonymous Referee #2

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The picture of the lidar design is too poor. No information on the Raman part can be seen. Also it is not clear if the Potassium lidar is coupled in some way with the Rayleigh-Raman part. The Rotational calibration is a critical issue that need to be discuss here even if already discuss. The context is different, Rayleigh signals are available. Why the temperature derived with Rayleigh scattering is not used to calibrate the Raman part. Also other paper have already coupled two techniques and authors should cited them. Other contribution need to be cited for exemple Nedejlovic et al.. Is there any mechanical chopper on some chanel. How the saturation effects are taken into account. this is a severe limitation about heigh range and the focus of the paper. It is difficult to believe that no saturation occurs. How it affects the overlapp procedure?

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