

***Interactive comment on* “The potential of elastic/polarization lidars to retrieve extinction profiles” by Elina Giannakaki et al.**

Anonymous Referee #2

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The authors show a study for estimating particle extinction profiles based on elastic and polarization channels from a lidar system. The data used were acquired during a field campaign in Crete. The methodology employed is well known and a direct comparison among Raman profiles and the particle linear depolarization is performed. While the results are quite interesting I consider it would be necessary to stress the novelty contribution given by this paper. Apparently it is the EEx approach but in that case I would give more detail to the description of the methodology and discuss better if using a Raman signal is a good validation method specially when concerning uncertainties of this approach. Apparently one of the conclusions is a strong dependency on the lidar ratio value and in this context it is important to check the uncertainties involved in the process.

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Section 2.4 Line 115 – Extinction Section 2.4 Line 118 – do not have Section 2.4 Line 118 – Only at a later stage, Conclusions Line 227 - EIEx

Please improve Figure 7 , Figure 8 and Figure 9 resolutions

Interactive comment on Atmos. Meas. Tech. Discuss., doi:10.5194/amt-2019-271, 2019.

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