

Atmos. Chem. Phys. Discuss., referee comment RC2
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Comment on acp-2021-726

Anonymous Referee #2

Referee comment on "Estimation of the vertical distribution of particle matter (PM_{2.5}) concentration and its transport flux from lidar measurements based on machine learning algorithms" by Yingying Ma et al., Atmos. Chem. Phys. Discuss., <https://doi.org/10.5194/acp-2021-726-RC2>, 2021

In this paper, authors want to Estimation of the vertical distribution of particle matter (PM_{2.5}) concentration based on machine learning algorithms, that's a good idea. This is a problem worth studying. Before publication, there are some problems to pay attention to.

1) the author get the aerosol EC profile from a mie lidar, using a Lidar ratio as a Constant hypothesis, which is 50. if you can give an Error caused by constant assumption, it will be better.

2, in part 5 Summary and conclusions, please Refine the summary part, and give some constructive discussion it will be better.