

# ***Interactive comment on “Lidar-Radiometer Inversion Code (LIRIC) for the retrieval of vertical aerosol properties from combined lidar/radiometer data: development and distribution in EARLINET” by A. Chaikovsky et al.***

## **Anonymous Referee #2**

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General comments: This study describes the details of the Lidar-Radiometer Inversion Code. The code already has been used widely and provided good estimates of aerosols in the many researches. It is worthwhile to show the details of the code for the further developments of the code itself and the remote sensing of aerosols. I recommend the publication after some technical revisions.

Specific comments:

P. 12772, LL. 15-16 Remove "|", "(", and ")" in the sentence, Equations (6) and (8) allow

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for”]” these — in a similar manner “(“Chaikovsky — 2000”)”.

P. 12782, LL. 14-21 and Figure 10b  $D(2)$ ,  $\text{rms\_dev}(2)$ ,  $D(3)$ , and  $\text{rms\_dev}(3)$  are used in the text, but  $D(1)$ ,  $\text{rms\_dev}(1)$ ,  $D(2)$ , and  $\text{rms\_dev}(2)$  are used in the figure.

P. 12783, LL. 4-10 and Figure 12  $\text{fine}(3)$ ,  $\text{coarse}(3)$ ,  $\text{fine}(4)$ , and  $\text{coarse}(4)$  are used in the text and the figure caption, but  $\text{fine}(2)$ ,  $\text{coarse}(2)$ ,  $\text{fine}(3)$ , and  $\text{coarse}(3)$  are used in the figure.

P. 12786, L8, Eq. A5 The “hi” in the parentheses of  $\text{Beta,}^{\text{ef\_r}}$  in the denominator. Is the “h” is correct?

P. 12788, L11, Eq. B1  $\exp(-2\tau_r)$

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Interactive comment on Atmos. Meas. Tech. Discuss., 8, 12759, 2015.

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