

Interactive  
Comment

## ***Interactive comment on “Non-parametric and least squares Langley plot methods” by P. W. Kiedron and J. J. Michalsky***

**Anonymous Referee #3**

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General comment

From my point of view this work should be considered as a review of several methods for obtaining Langley plot calibration for Sun photometers. This also because, as expected and recognized by the authors, is not possible to give an answer on which method is the most appropriate.

In some cases it's difficult to follow the different steps of a specific method, but appropriate references are provided to whom who want to deeply understand and/or apply it. Maybe, more examples of the application of the different methods to specific cases, as in Figure 1, could help the reader to quickly have an idea on the usefulness of them.

Specific comments

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Page 4201, lines 13-16: this is an example of what I said in the general comment. I can't follow the steps.

Page 4203, lines 6-20: another series of steps difficult to follow.

Figure 2 and discussion at page 4206, lines 18-26: again, I can't follow the discussion and the value of such a plot.

Page 4208, lines 1-6: I can't understand the definitions of  $a_{cc}(d)$  and  $a(d_j)$ . Why do you add the subscript  $j$ ? Is it necessary?

Technical corrections

Page 4208, line 8: please check "by a moving a boxcar filter".

In the acknowledgements, please check "Centreto".

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Interactive comment on Atmos. Meas. Tech. Discuss., 8, 4191, 2015.

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