

Interactive comment on “Influence of spectral solar irradiance on the formation of new particles in the continental boundary layer” by M. Boy and M. Kulmala

Anonymous Referee #1

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After a discussion by telephone with the corresponding author, I have following comments.

The title seems to reflect the content of the paper. I suggest to improve the title.

The definition 400 particles cm^{-3} and 600 mW m^{-2} as definition of the start of an event must be seen as only appropriate for a station in Finland. Please, explain this better. These thresholds are definitely not true for other sites in Europe.

Another major point is that the motivation for chapter four is not sufficiently described. I understand that $\text{O}(1\text{D})$ is important for the formation of OH, but this fact and the connection to the previous analysis must be better explained for the reader.

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