

## ***Interactive comment on* “The tilt-effect in DOAS observations” by Johannes Lampel et al.**

### **Anonymous Referee #2**

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Lampel et al. present an important study showing the relationship between the so-called Tilt effect and the DOAS shift. It is an important work which is of interest for the DOAS community. The methodology is scientifically sound. I think this study should be published in AMT and I have only few minor comments:

- I find the paper could be improve in its structure. The author sometimes refer to figures or equations that are only properly introduced few pages later and I found it hard to follow.
- Eq.3 : the optical density commonly refers to the log-ratio of  $t$  and  $s$ . Please harmonize throughout the paper
- Eq. 17: there is an editing issue “eq:shiftdef”
- Table 1: For O<sub>3</sub> cross-sections, I guess  $S_o=1e19$  molec. cm<sup>-2</sup> and not 1e18

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molec.cm-2. It is not clear what is “Add. Polynomial degree”.

- Table 2: typo: (squeeze de6inition-> squeeze definition)

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Interactive comment on Atmos. Meas. Tech. Discuss., doi:10.5194/amt-2017-168, 2017.

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