

Interactive  
Comment

## ***Interactive comment on “Temperature profiling of the atmospheric boundary layer with rotational Raman lidar during the HD(CP)<sup>2</sup> observational prototype experiment” by E. Hammann et al.***

**E. Hammann et al.**

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Received and published: 19 December 2014

Response to the comments of Anonymous Referee #1

We thank the reviewer for reading the manuscript in detail and for his/her very helpful comments and suggestions. We would like to respond briefly to two of the comments already here and will give a more detailed response with the revised version.

In equation 4 a factor 2 is not necessary because  $\Delta P_{Bx}$  is equal 0 (see also Behrendt et al., 2002). We will add an explanation in the revised version.

By changing the beam divergence the shape and position of temperature uncertainty  
C10356

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plots changes only slightly. We will add a comment regarding this point to the revised version.

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Interactive comment on Atmos. Chem. Phys. Discuss., 14, 28973, 2014.

**ACPD**

14, C10356–C10357,  
2014

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