

## ***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.***

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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

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.