

Interactive comment on “Interference errors in infrared remote sounding of the atmosphere” by R. Sussmann and T. Borsdorff

R. Sussmann and T. Borsdorff

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Dear Dr. Bowman,

thank you for pointing to two papers of your own, i.e., Worden et al. (2004) and Bowman et al. (2006), in which you are addressing an equation that is not more than a starting point for our paper.

This equation for the error covariance resulting from the interference between a target profile retrieval \mathbf{t} and the simultaneous retrieval of an interfering vector \mathbf{v}

$$\mathbf{S}_{tv} = \mathbf{A}_{tv} \mathbf{S}_v \mathbf{A}_{tv}^T \quad (1)$$

had been given for the first time in 2003 by Rodgers and Connor (their Eq. 8). We have made reference to this work in our discussion paper, and will in addition carefully check our wording in the revised version of our paper, to ensure we are clear about this point.

Sincerely,
Ralf Sussmann and Tobias Borsdorff

Interactive comment on Atmos. Chem. Phys. Discuss., 6, 13027, 2006.

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Discussion Paper

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