

Interactive  
Comment

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

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I want to point out that the treatment of interference errors in infrared remote sounding of the atmosphere has already been done. See Equations 30 and 39 in the following citation

[1] K. Bowman, C. D. Rodgers, S. S. Kulawik, J. Worden, E. Sarkissian, G. Osterman, T. Steck, M. Lou, A. Eldering, M. Shephard, H. Worden, M. Lampel, S. Clough, P. Brown, C. Rinsland, M. Gunson, and R. Beer. Tropospheric emission spectrometer: Retrieval method and error analysis. IEEE TRANSACTIONS ON GEOSCIENCE AND REMOTE SENSING, 44(5), May 2006.

The first use of cross-state error was discussed in Section 3.3 of

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Discussion Paper

[1] J. Worden, S. Kulawik, M. Shepard, S. Clough, H. Worden, K. Bowman, and A. Goldman. Predicted errors of Tropospheric Emission Spectrometer nadir retrievals from spectral window selection. *J. Geophys. Res.*, 109(D09308), May 2004.

The use of this approach for their studies is great. But, they can not claim to be the first who have studied it.

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

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