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Interactive Comment

Interactive comment on "MIPAS database: Validation of HNO₃ line parameters using MIPAS satellite measurements" by J.-M. Flaud et al.

Anonymous Referee #3

Received and published: 19 June 2006

The paper by J.-M. Flaud et al has two important aspects. The first (sec. 2,3,4) is the in depth critical review of knowledge of line parameters for HNO3 in the 8.3 and 11.2 micrometers. The second is the demonstration of how measurements of atmospheric spectra can help to select among contradictory data the most reliable set. The only observation I can see is that the VMR adopted for the computation is the same for both the 'old' and 'new' spectroscopic line parameters (pag 4259-12), while the change in line strength is expected to alter the VMR in the retrieval process inversely to the chang of line strength (rule of thimb estitnate). A quick check on how this nfluences the fit residuals is probably worthwhile

Interactive comment on Atmos. Chem. Phys. Discuss., 6, 4251, 2006.

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