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MIPAS database: Validation of HNO₃ line parameters using MIPAS satellite measurements

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Abstract. Using new and accurate experimental results concerning the spectroscopic properties of the HNO₃ molecule as well as improved theoretical methods it has been possible to generate an improved set of line parameters for this molecule in the spectral range covered by the MIPAS (Michelson Interferometer for Passive Atmospheric Sounding) experiment. These line parameters, which have been validated using broadband atmospheric spectra recorded by MIPAS, have been included in the last version of the MIPAS spectroscopic database to be used for future processing of the MIPAS spectra.

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