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Monitoring of the Earth's atmosphere using spectroscopy from space

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The impact of human activities on the evolution of the Earth's atmosphere is a subject of great concern. In particular, man-made emissions of trace gases can substantially influence the composition of the atmosphere on large scales, with important consequences for the ozone layer, for tropospheric air quality, and for climate. Atmospheric spectra recorded using instruments on satellite platforms, together with reference data from molecular spectroscopy and numerical radiative transfer modelling, provide global measurements of the most important atmospheric trace gases, like O₃, NO₂, CO, CH₄, CO₂ ...

In this talk I will present current activities and recent examples of atmospheric remote-sensing from space using spectroscopic techniques.

Montag, 10. März 2008, 17:30 Uhr
(ab 17:00 Uhr Kaffee)
Technische Universität Wien, Freihaus,
Hörsaal 5 (Turm A, grüner Bereich, 2. Stock)
Wiedner Hauptstr. 8-10, A-1040 Wien