



Weakly Interacting Molecular Pairs: Unconventional Absorbers of Radiation in the Atmosphere (Nato Science Series: IV:)

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The Advanced Research Workshop entitled “Weakly Interacting Molecular Pairs: Unconventional Absorbers of Radiation in the Atmosphere” was held in Abbaye de Fontevraud, France, from April 29 to May 3, 2002. The meeting involved 40 researchers from 14 countries. The goal of this meeting was to address a problem that the scientific community is aware of for many years. Up to now, however, the solution for this problem is far from satisfactory. Pair effects are called unconventional in the title of this meeting. In specific spectral domains and/or geophysical conditions they are recognized to play a dominant role in the absorption/emission properties of the atmosphere. Water vapor continuum absorption is among the most prominent examples. Permanently improving accuracy of both laboratory studies and field observations requires better knowledge of the spectroscopic features - attributable to molecular pairs which may form at equilibrium. The Workshop was targeted both to clarify the pending questions and, as far as feasible, to trace the path to possible answers since the underlying phenomena are yet incompletely understood and since a reliable theory is often not available. On the other hand, the lack of precise laboratory data on bimolecular absorption is often precluding the construction of reliable theoretical models. Ideally, the knowledge accumulated in the course of laboratory studies should correlate with the practical demands from those who are carrying out atmospheric field measurements and space observations.

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