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Atmospheric Chemiluminescence: COCHISE and FACELIF Experiments

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Abstract: During the last four years, many experiments have been performed in the COCHISE facility. Each of these experiments has measured a fundamental chemical quantity such as a radiative branching ratio, a quenching rate coefficient or a product vibrational energy distribution. These measurements are then provided for incorporation into the various atmospheric radiation codes such as NORSE, ARC, and AARC, where they provide a solid experimental footing for modeling the complex chemical system of the upper atmosphere. Keywords: Nitric oxide; Nitrous oxide; Nitrogen; Carbon monoxide; Carbon dioxide branching ratio; Multiphoton ionization; Vibration population distribution; Rotational band heads. (kt)

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