COMPARATIVE STUDIES of $J' \leftarrow J = 1 \leftarrow 0$ CO LINE BROADENING PARAMETERS IN FREQUENCY AND TIME DOMAIN EXPERIMENT

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The pressure broadening of CO $J' \leftarrow J = 1 \leftarrow 0$ line has been studied by two different techniques. The investigation was made with the perturber gases CO [a], N_2, O_2, H_2, CO_2, He, Ne, Ar, Kr, Xe at room temperature.
The two different methods of line broadening measurement and the results obtained in the time- and in the frequency-domain respectively will be discused. Both methods gave results in a good agreement, for example, selfbroadening parameter C_w=3.43(2) MHz/Torr (time-domain) and C_w=3.425(6) (frequency-domain) were obtained. [b]

[a] H.Maeder, A.Guarnieri, J.Doose, N.Nissen, V.N.Markov, A.M.Stanyuk, A.F.Andrianov, V.N.Shanin and A.F.Krupnov, *Journ. Molec. Spectr.* **180**, 183-187 (1996)

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