$$\mathbf{I}$$ High resolution spectroscopy with an optical frequency comb II

^{1,2} ^{1,2} ¹ ¹ JST ² Masatoshi MISONO^{1,2}, Mitsushi OKUBO^{1,2}, Kensuke DAIRIKI¹ (Fukuoka Univ.¹, JST-PRESTO²)

For high resolution spectroscopy of excited states of polyatomic molecules, a precise scale of optical frequency plays an important role. In the present study, we use a 1 octave optical frequency comb as the scale. We combine it with the Doppler-free two-photon absorption spectroscopy to measure precise molecular transition frequencies.



rep [MHz]

99.999 988

3

4