

## PROPOSED RECOMMENDATION 1 CCTF (2006)

Recommended frequency standard values for applications including the practical realisation of the metre and secondary representations of the second

The Consultative Committee for Time and Frequency,  
considering

- the proposal expressed by the 12<sup>th</sup> CCL meeting in its second recommendation;
- the realisation of direct and accurate frequency measurements made possible by the femtosecond laser comb;
- the steady reduction in uncertainties associated with frequency standards;
- the differing accuracy requirements of the CCL length metrology community and the CCTF secondary representations criteria;

recommends that:

- the CCL-MeP WG and CCL/CCTF JWG be combined into a single CCL-CCTF frequency standards working group;
- the MeP-CCL list of Recommended Radiations and CCTF Secondary Representation list be combined into a single new list of “Recommended frequency standard values for applications including the practical realisation of the metre and secondary representations of the second”;
- other frequencies may be proposed, evaluated and maintained on the frequency standards list by the CCL-CCTF frequency standards WG, not all of which are adopted as CCL-preferred radiations or CCTF-accepted representations;
- the CCTF consider and recommends those frequencies which it proposes the CIPM to accept as secondary representations of the second;
- the CCL considers and recommends those frequencies which it deems important for use in high accuracy length metrology;
- the frequency values list is maintained on the BIPM website.