

## Optical frequency measurement comparison using fiber laser combs between NIMT and CMS

*Monday 21 May 2018 17:15 (15 minutes)*

A NIMT optical frequency comb was compared with an Er-fiber laser comb with repetition frequency of 250 MHz made by the Center for Measurement Standards (CMS), Taiwan by simultaneously measuring the frequency of a 633 nm He-Ne laser. The difference of average frequency measurement is 283 Hz and corresponds to a relative difference of  $6.0 \times 10^{-13}$ .

**Authors:** Dr CHANTHAWONG, Narin (National Institute of Metrology (Thailand)); BUAJARERN, Jariya (National Institute of Metrology (Thailand)); Dr PENG, Jin-Long (Center for Measurement Standards); Dr TING, Wei-Jo (Center for Measurement Standards)

**Presenter:** Dr CHANTHAWONG, Narin (National Institute of Metrology (Thailand))

**Session Classification:** A8: Instrument I

**Track Classification:** Instrumentation, Metrology and Standards