

Kanokpoj Areekul 2007: Measurement of He-Ne Laser Wavelength for Calibration of Metre Standard According to the SI Definition. Master of Science (Metrology), Major Field: Metrology, Department of Physics. Thesis Advisor: Associate Professor Bancha Panacharoensawad, Dr.Ing. 95 pages.

Metrology is a new area of study and research in our country. Standard unit of length is one of seven basic standard SI units that calibration requirement demand is 50% of all. Calibration of length and related quantities require traceability to the SI. According to the SI definition of meter in 1983, CIPM recommends (CI-1983) three methods of meter realization. The possible and accurate method is the application of interferometer to measure the wavelength of some standard source such as stabilized HeNe laser. This thesis is proposed to apply scanning confocal Fabry-Perot interferometer for wavelength measurement.



Student's signature



Thesis Advisor's signature