ABSTRACT

By carrying out the experiment of Michelson Interferometer, it can be known the temporal coherence characteristic and He-Ne laser source visibility. From an experiment (with range path difference ΔL from 0 to 112 cm) we hold, it produced the value of maximum temporal coherence degree it is: 0.846 (on ΔL = 0 cm), 0.818 (on ΔL = 52 cm) and 0.744 (on ΔL = 104 cm) from the source and the great amount of the minimum is: 0.1724 (on ΔL = 26 cm) and 0.156 (on ΔL = 78 cm) and we also found the same value of visibility source with temporal coherence degree. We will found the value of temporal coherence degree He-Ne laser source periodic on path difference 52 cm and the coherence length of laser is 26 cm. We also found that He-Ne laser source have two longitudinal modes.