

## 5.1: What you should know and be able to do after studying this chapter

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- Understand time coherence and spatial coherence.
  - Know how the degree of time coherence can be measured with a Michelson interferometer.
  - Understand the connection between the time coherence and the frequency bandwidth.
  - Know how the spatial coherence of two points can be measured with Young's two-slit experiment
  - Understand that spatial coherence increases by propagation.
  - Understand how the size of a incoherent source such as a star can be derived from measuring the spatial coherence at large distance from the source.
  - Know the definition of fringe visibility.
  - Know and understand the three Laws of Fresnel-Arago.
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