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- Light propagated in optical fiber in form of modes. - Spatial distributions of EM fields do not change with time. No of Modes? - V number (normalized frequency) define number of possible modes for a fiber:  $V = \frac{2\pi a \text{NA}}{\lambda}$  where a is radius of fiber, and  $\lambda$  is wavelength of light. For single mode propagation,  $V < 2.405$ .

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