

Formation of Optical Images

The point:

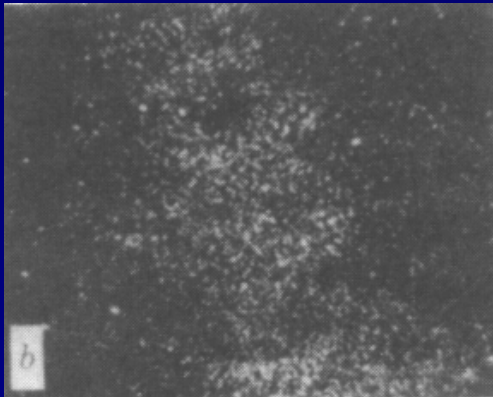
Processes that seem to be continuous may, in fact, consist of many microscopic “bits”.
(Just like water flow.)

For large light intensities, image formation by an optical system can be described by classical optics.



For very low light intensities, one can see the statistical and random nature of image formation. Use a sensitive camera that can detect single photons.

A. Rose, J. Opt. Sci. Am. 43, 715 (1953)



Exposure time →