## Basic theory and various application of confocal laser scanning microscope

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- 1. Basic theory of confocal scanning
  - What is confocal
  - System structure optical beam path
- 2. Bio-medical application
  - Conventional microscipy
  - High-resolution confocal Microscopy
  - Double and Multi-fluorescence Microscopy
  - 3-Dimensional Imaging and measurement
  - Kinetic mesurement by time series
  - Image Analysis
- 3. Material and Semiconductor application
  - Infrared Microscopy
  - Emission Microscopy
  - Optical Beam Induced Current (OBIC)
  - Polarized Light Microscopy (Liquid Crystall)
- 4. Conclusion
  - The future aspect of laser scanning Microscope