Optical Fiber Nano-antenna/Axicon

Introduction

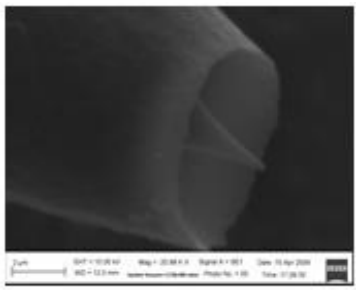
- Fabrication of the state-of-art opticalfiber tip based Nano-antenna and Axicon
- The original nano/micro structures have no competitor worldwide and have unparalleled optics used in advanced photonics research and instrumentation
- Dimensions of the optical structure at the fiber tip can be changed to customize without adding any cost
- Low cost and minimum skill but unparallel structures with significant impact

Application

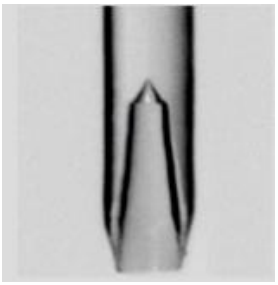
Multipurpose use in instrumentation for interdisciplinary application

▪ Probing whispering gallery mode ▪ Optical spectroscopy ▪ Light-matter interaction	▪ Non-Gaussian beam generation ▪ Large depth of focus ▪ Optical imaging

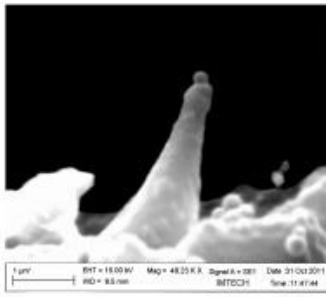
Optical Nano-antenna **Axicon**



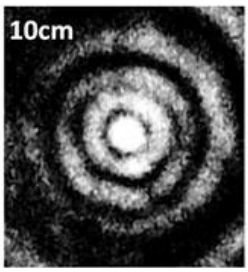
Typical Nano-antenna



Typical Axicon



Antenna tweezed silica sphere as dipole antenna



Bessel beam from Axicon