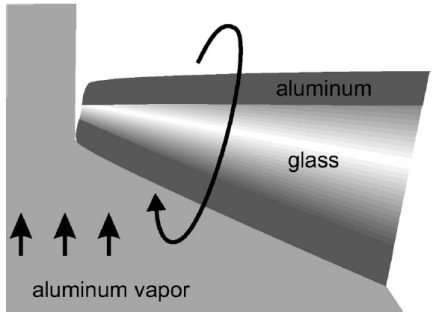
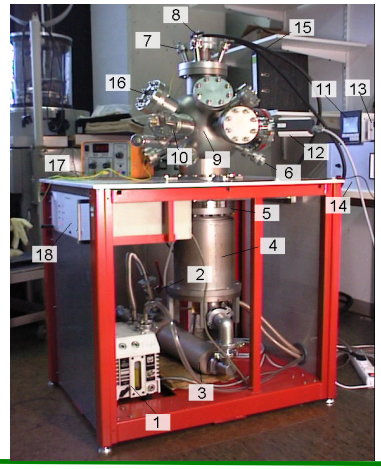
Coating



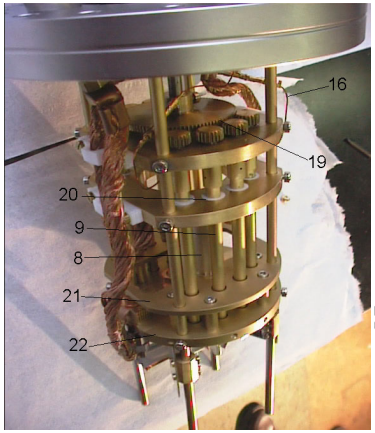
Betzig et al. (1991); Hecht et al. (2000)

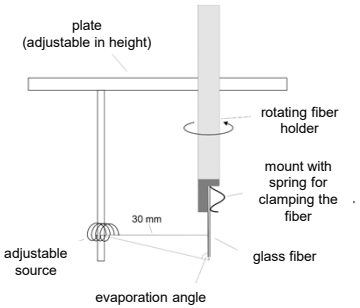
Evaporation facility



D. Molenda, Diplomarbeit (2001)

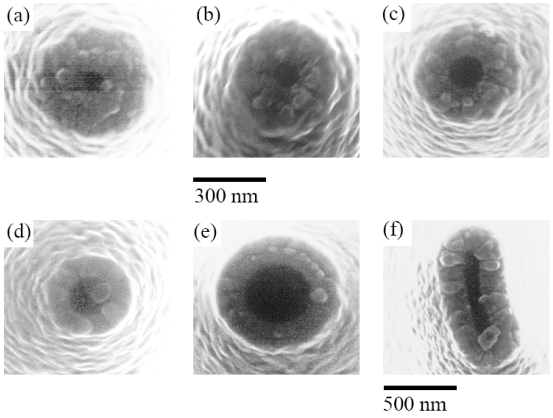
Rotational Evaporation





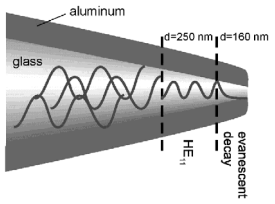
D. Molenda, Diplomarbeit (2001)

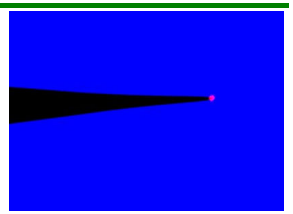
Aperture Probes: Examples

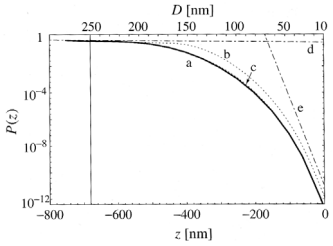


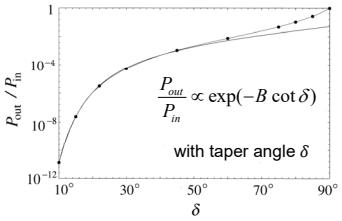
Hecht, Dissertation (1996)

Light Transmission through Aperture Probes



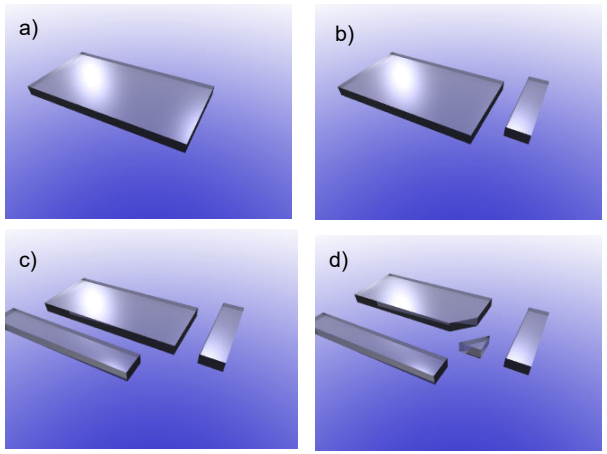






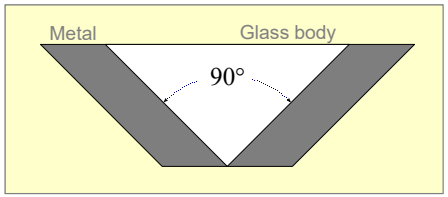
Novotny & Hecht, Nano-Optics (2006)

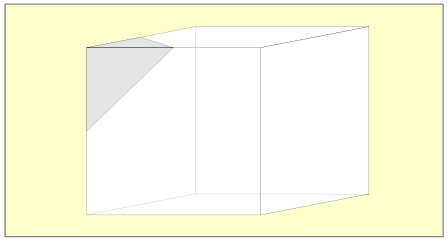
Preparation of Tetrahedron Glass Tips



Koglin et al., PRB (1997)

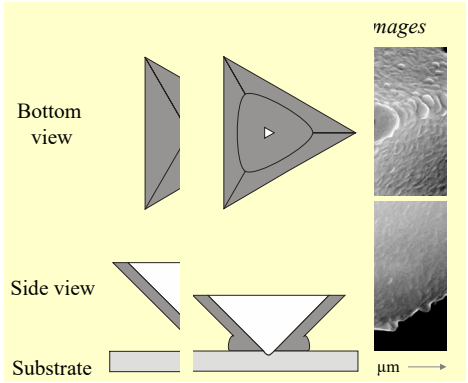
Tetrahedrally-Shaped Glass Body



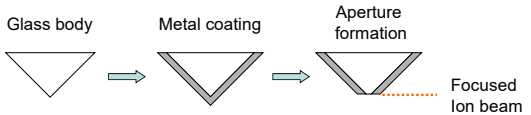


Koglin et al. (1997)

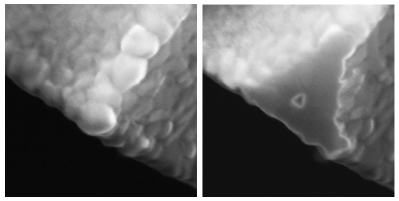
SNOM Probe with a Triangular Aperture



Focused-Ion-Beam Milling

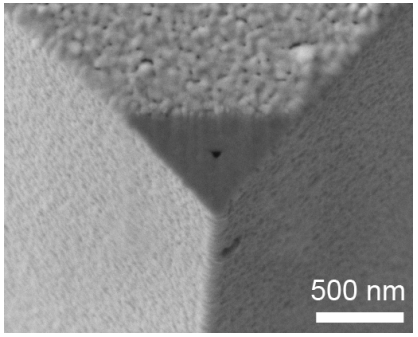


Triangular Aperture



Veerman et al. (1999); N. Rau & F. Perez

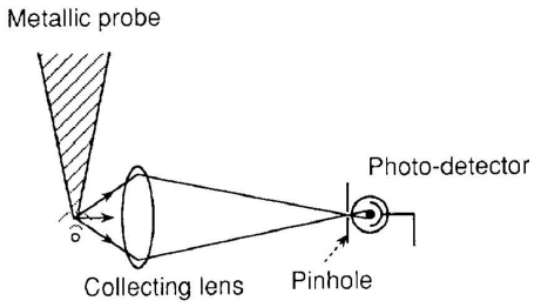
Triangular-Aperture (TA) Probe



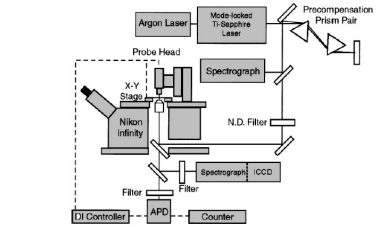
Typical size of the aperture is 30-60 nm

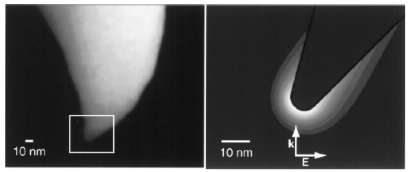
D. Molenda et al., Opt. Express (2005)

Metal Tip



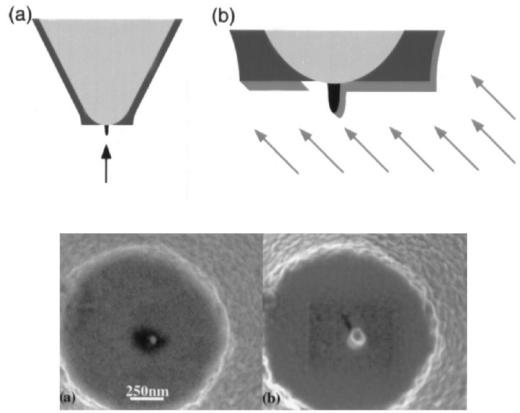
Two-Photon Fluorescence Excitation





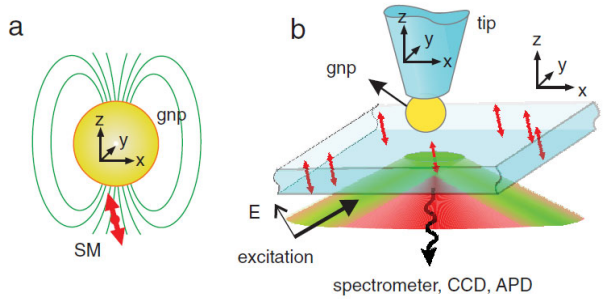
Sanchez et al., PRL 1999

Tip-On-Aperture (TOA)



Frey et al., APL 2002

A Gold Nanoparticle as Optical Antenna

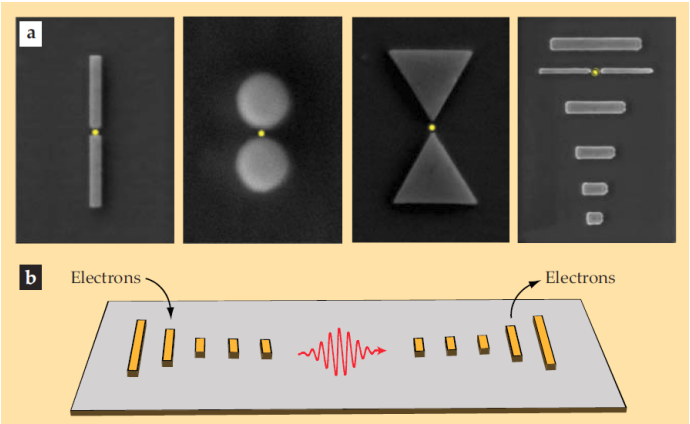


gnp = gold nanoparticle

Kühn et al., PRL (2006)

Optical Antennas

Gap a. Dimer a. Bow tie a. Yagi-Uda a.



Novotny, Physics Today (2011)