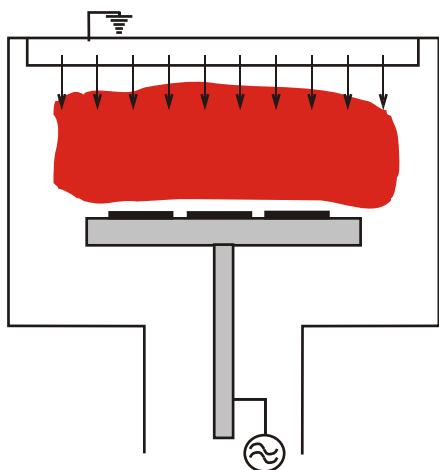
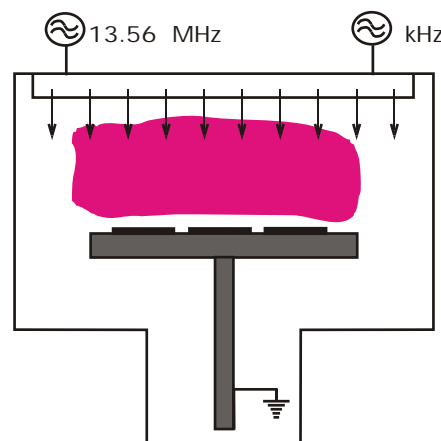


Plasmalab Data

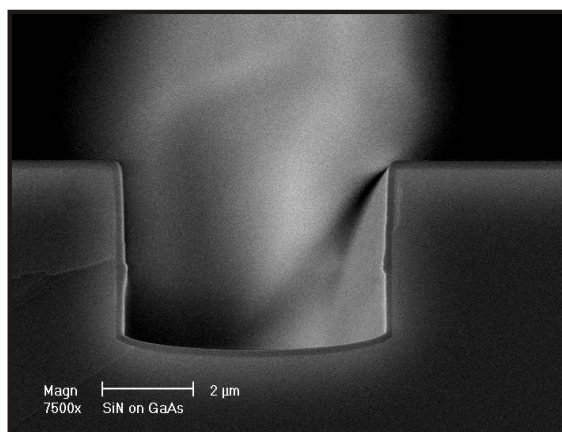
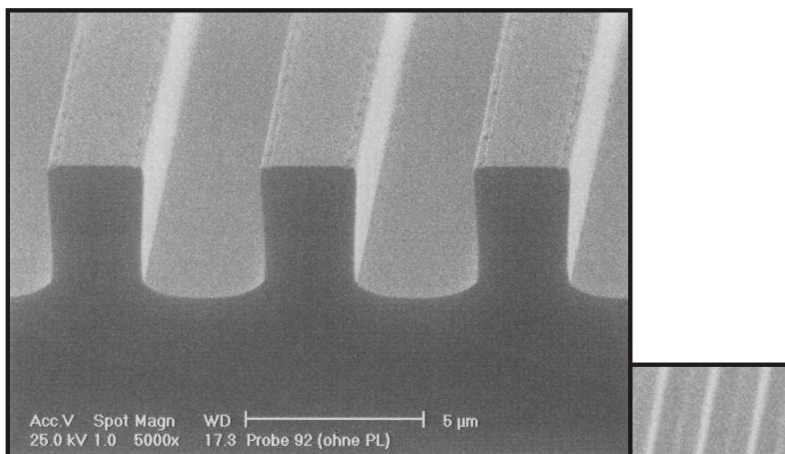
GaAs RIE and Si₃N₄ PECVD for laser mirrors



Reactive Ion Etching (RIE)



Plasma Enhanced Chemical Vapour Deposition (PECVD)



RIE: *Plasmalab 80 Plus "Master"*
PECVD: *Plasmalab 80 Plus "Slave"*

SiN deposition rate: 10 - 20 nm / min
 conformal coating
 uniformity < +/- 2 % (4" wafer)
 GaAs etch rate: 30 - 80 nm/ min
 anisotropic etch
 selectivity to the mask: > 30 : 1

300 nm Si₃N₄: conformal deposition
 anisotropic GaAs etch using a photoresist mask

Courtesy of TU Vienna, Institut für Festkörperelektronik
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