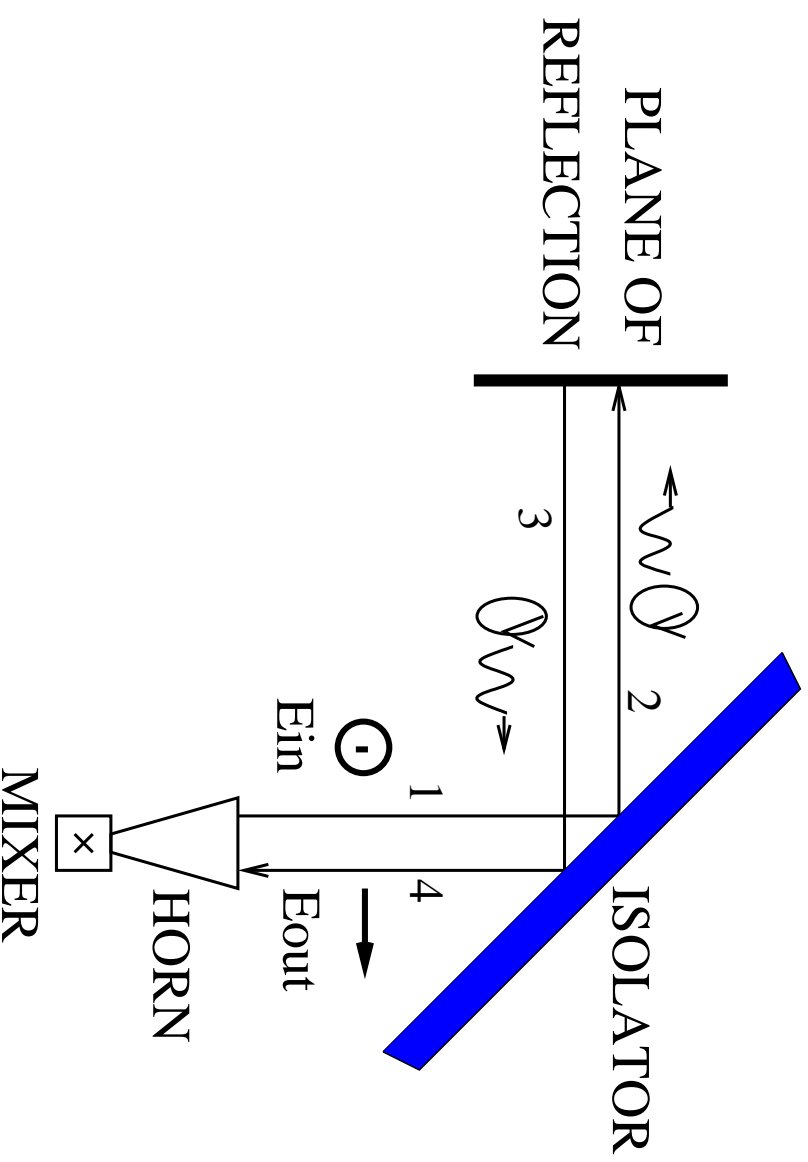
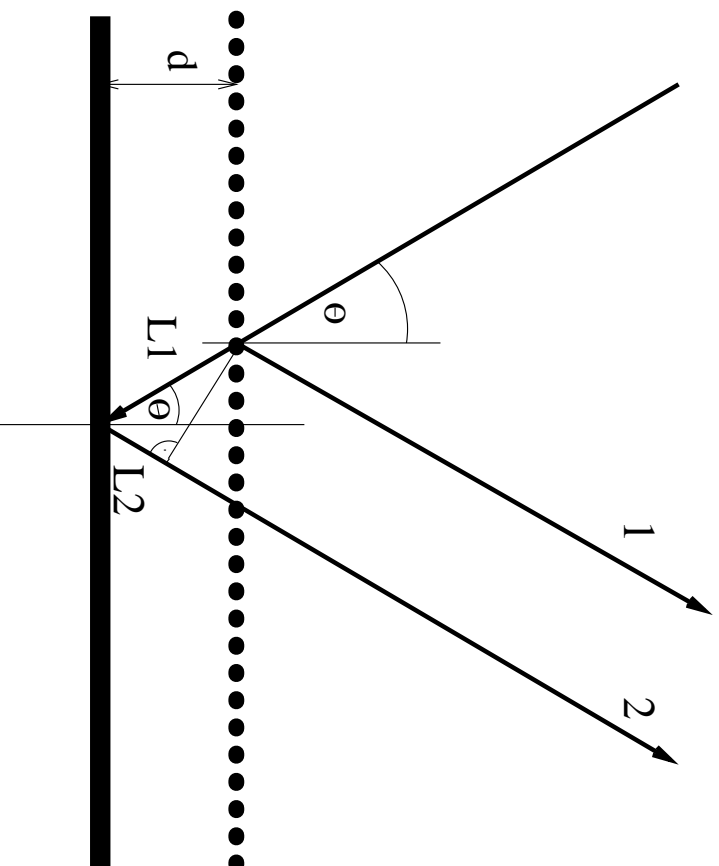


Principle



The $\lambda/4$ quasioptical isolator



$$\Delta L = L1 + L2 = 2d\cos\theta$$

$$\Phi = k\Delta L = \frac{4\pi d}{\lambda}\cos\theta$$

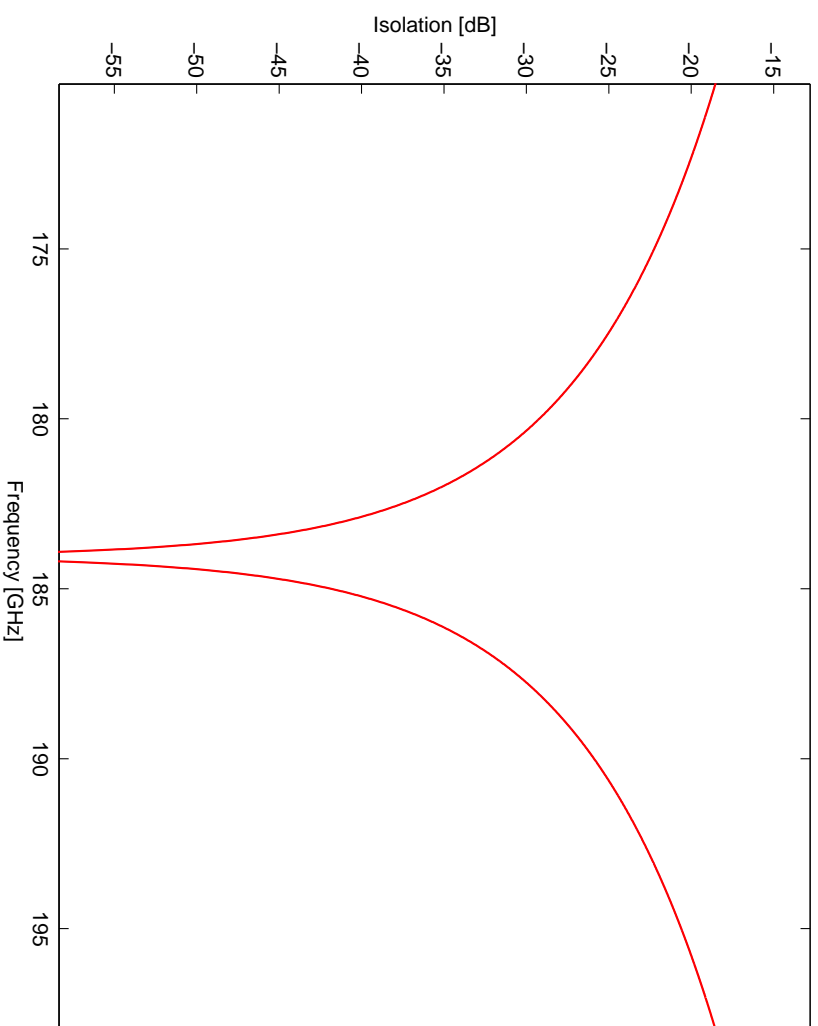
To have $\Phi = \frac{\pi}{2}$ (to have a circular polarized output) ΔL has to be:

$$\Delta L = \frac{\lambda}{4}$$

Therefore: ' $\lambda/4$ isolator'

The reflected signal attenuated by $\cos^2\Phi$

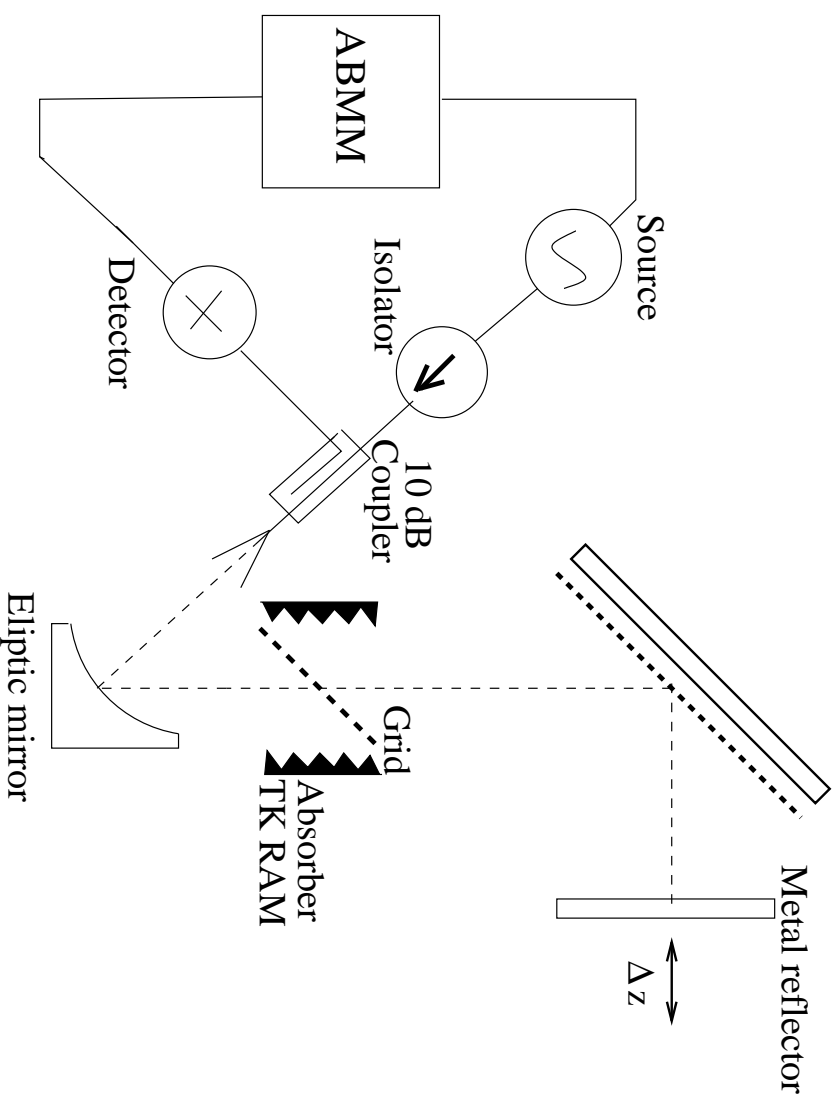
Ideal characteristic



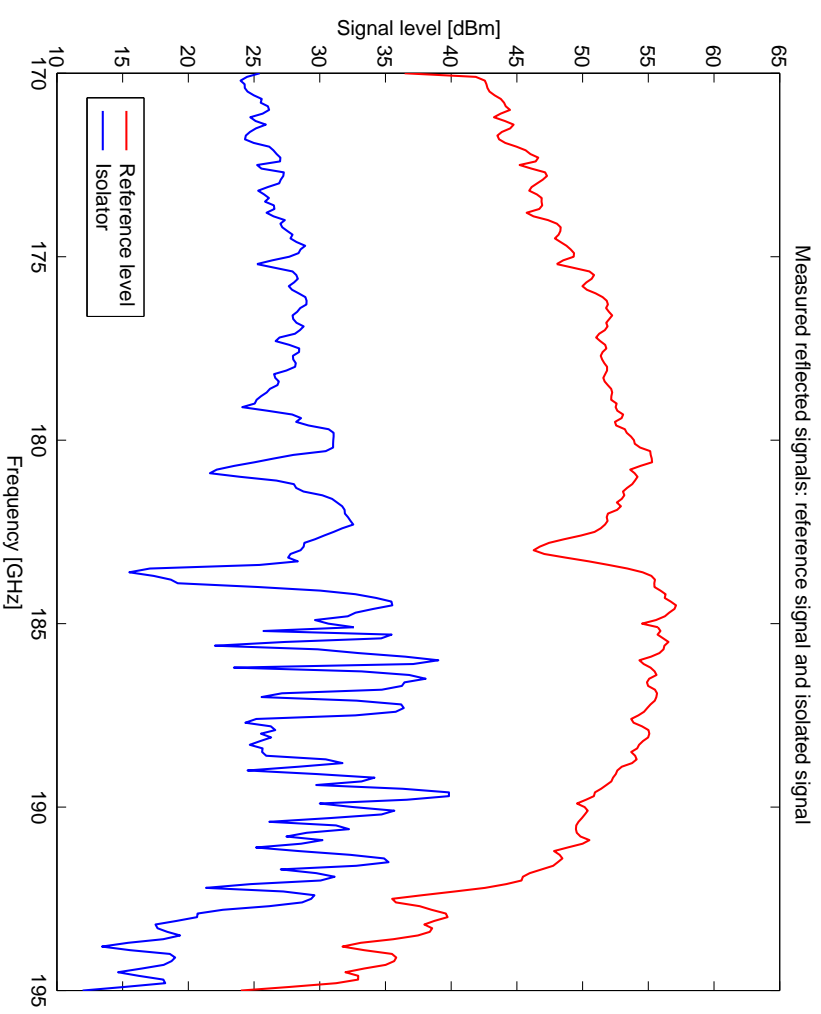
$\lambda/4$ Quasioptical Isolator

V.Vasić

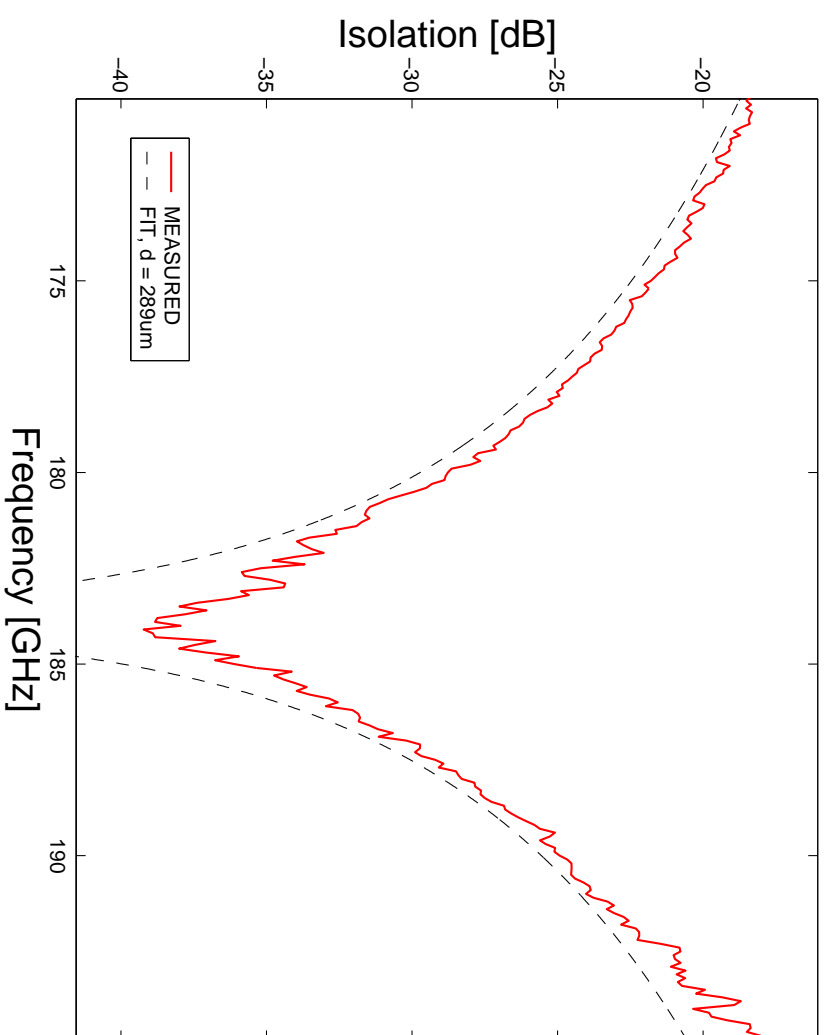
Measurement setup



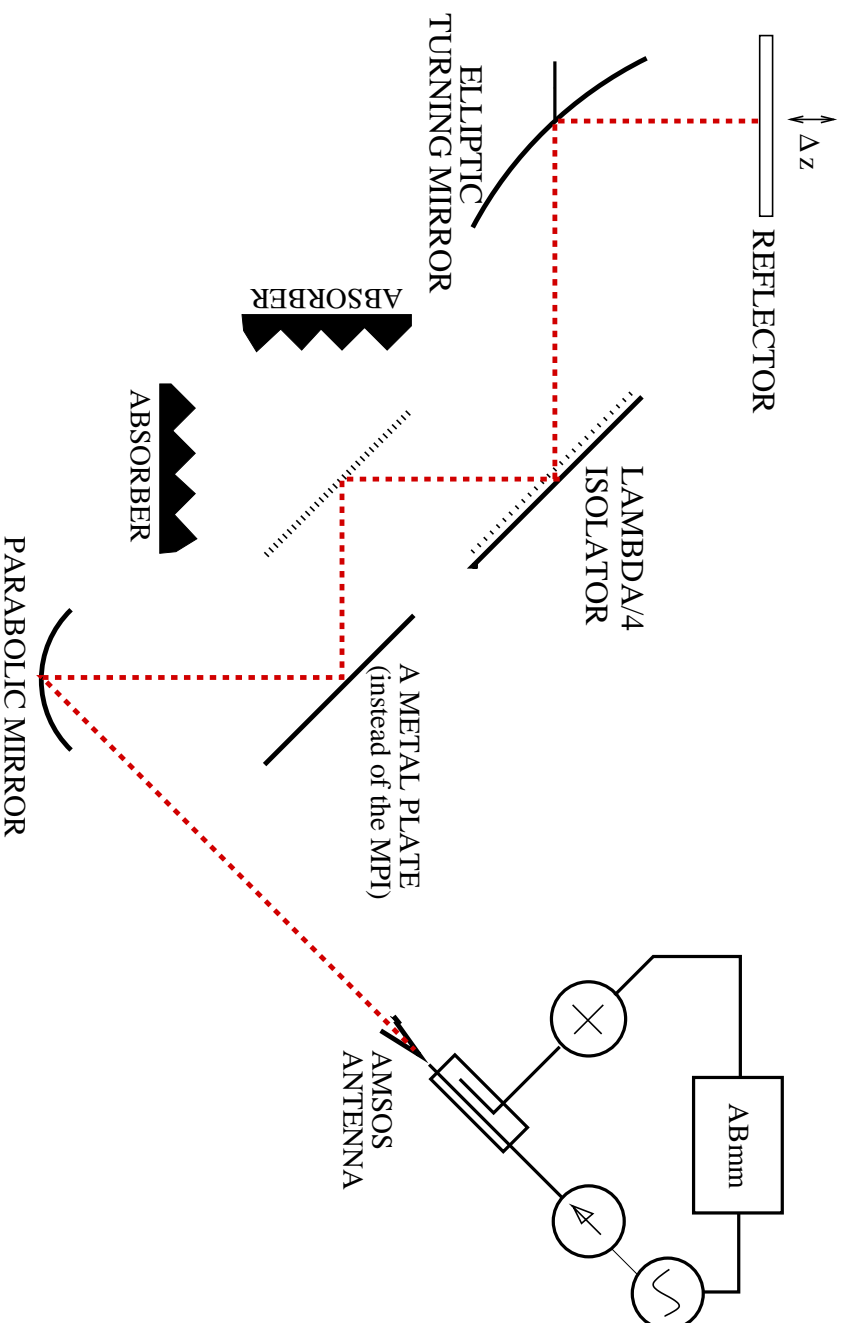
Measurements - signal



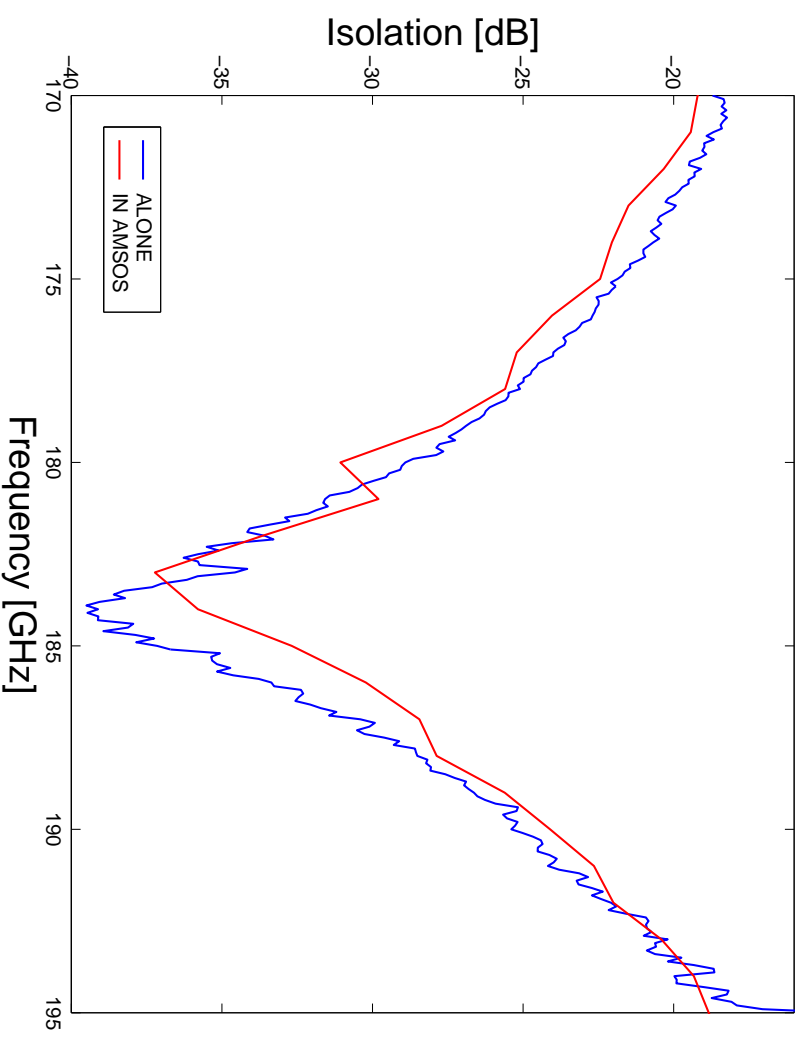
Results



Measurement setup - isolator in AMSOS



Results - isolator in AMSOS



Results - TK isolator

