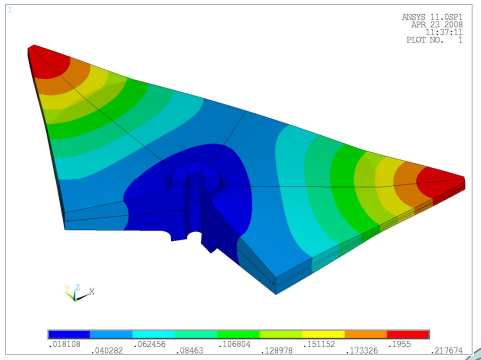
1 kHz-Röntgenpulsselektor

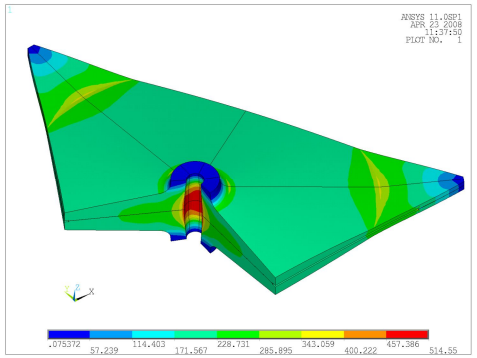
für ESRF, Grenoble und die University of Chicago

Dreiseitig nutzbar, d.h. dreifache Pulsausbeute; Phasenstabilität 2 bis 3 ns

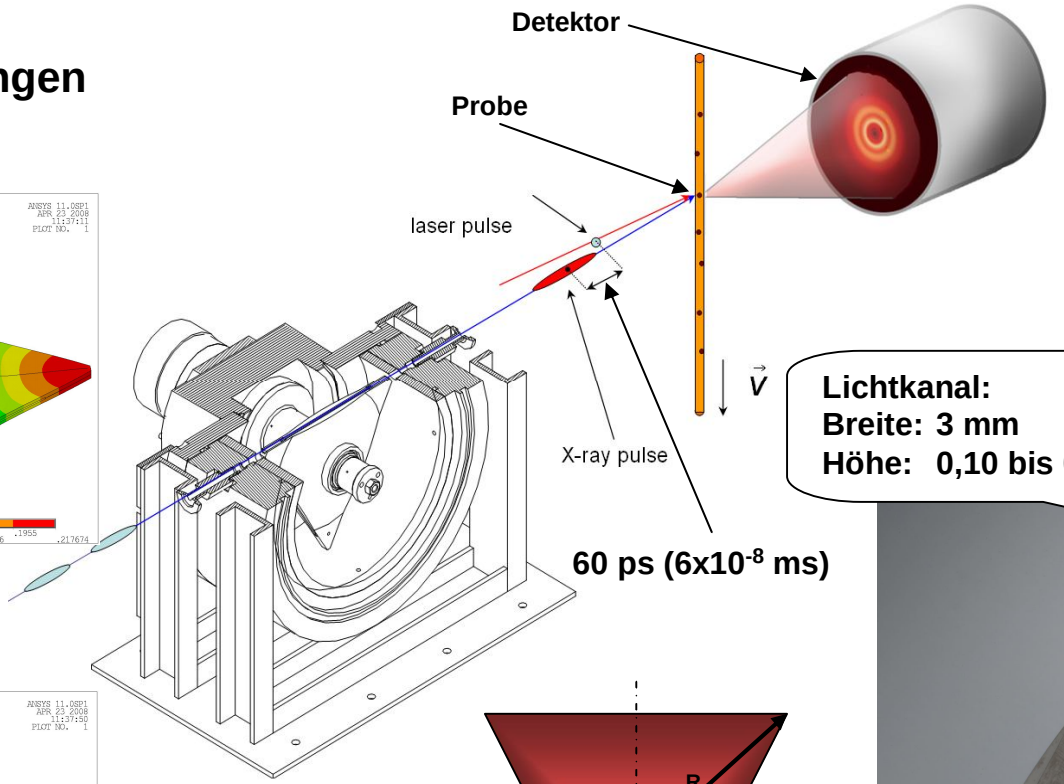
Fliehkraftbelastungen (60.000 min^{-1})



Deformationen

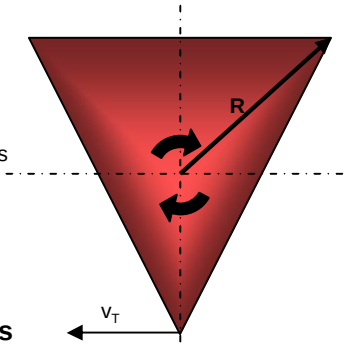


Vergleichsspannungen

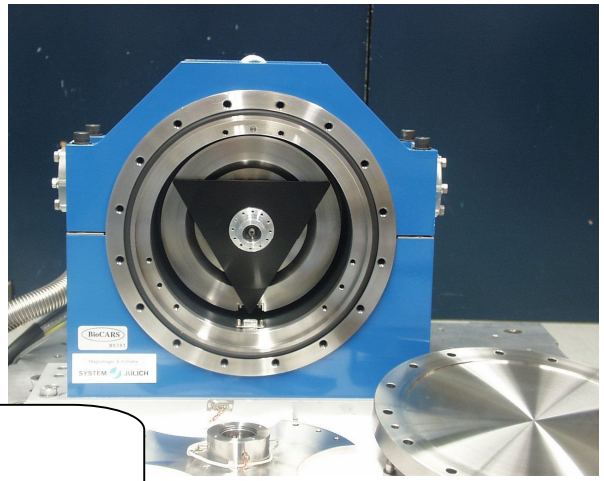


60 ps (6x10^{-8} ms)

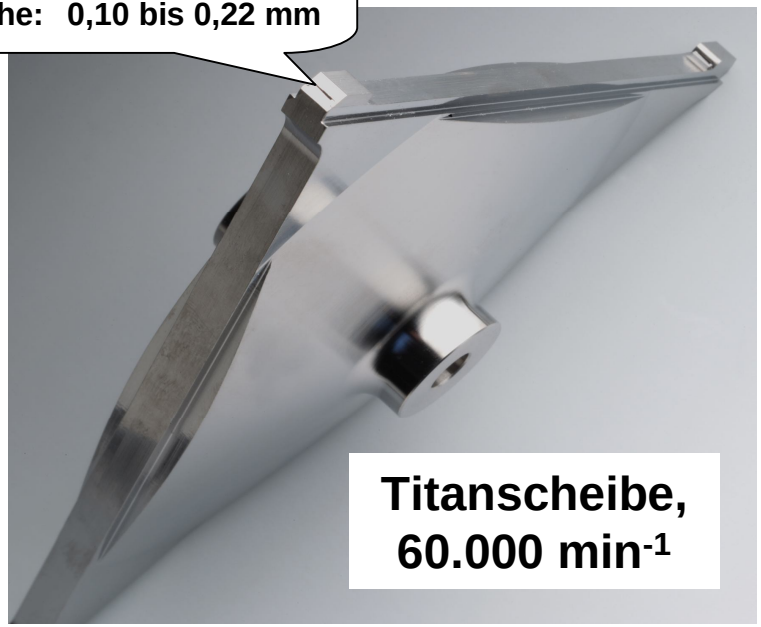
[Wulff et al. „The shutter system for fast time-resolved experiments on beamline ID09 at the ESRF"]



R = 96,8 mm
v_T = 599,8 m/s
~ 1,74fache Schallgeschwindigkeit in Luft



Lichtkanal:
Breite: 3 mm
Höhe: 0,10 bis 0,22 mm



Titanscheibe, 60.000 min^{-1}