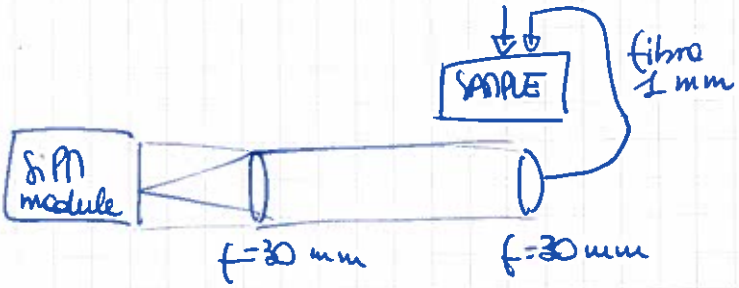
11/10/2017

MISURE per SIMULAZIONI ANDREA

Setup: laser picoquant @ 672 nm (Sepia II + high power head)
f = 40 MHz
⇒ tune: 55% Pout = 6 mW → 2.5 mW coupled to collection fiber
end of 600 μm fiber

fibre laser → collimatore → lente f=30mm → collimatore



TO BE ADJUSTED! (rodden with dummy)

SOL=0004
Calibrazione attenuatore
Dummy 0 → ~~260~~ (160) (step 20) – fully open → closed –
Bravo 0 → 310 (step 1) – fully closed → opened –

SOL=0005
Errore nella precedente: dummy 0 → ~~260~~

SOL=0006
come di before

12/10/17

SOL=0007
Calibrazione attenuatore
Bravo: 0 → ~~200~~ 310 (step: 1)
Dummy: 0 → 200 (step: 10)
Tacq = 0.5 s
→ misure ok!

18/10/17

SOLm0178

Source fiber: position 1
Detector from position 1 to 8

100 rep of 100 ms each (0.1 s)

SOLm0179
Source fiber: 2

SOLm0180
Source fiber: 3

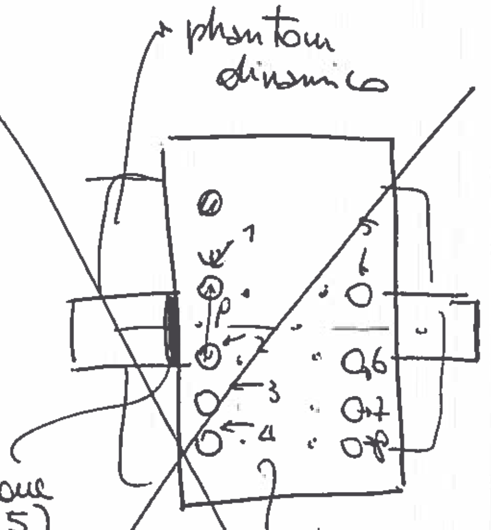
SOLm0181
Source fiber 4

SOLm0182
Source fiber 5

SOLm0183
Source fiber 6

SOLm0184
Source fiber 7

SOLm0185
Source fiber 8

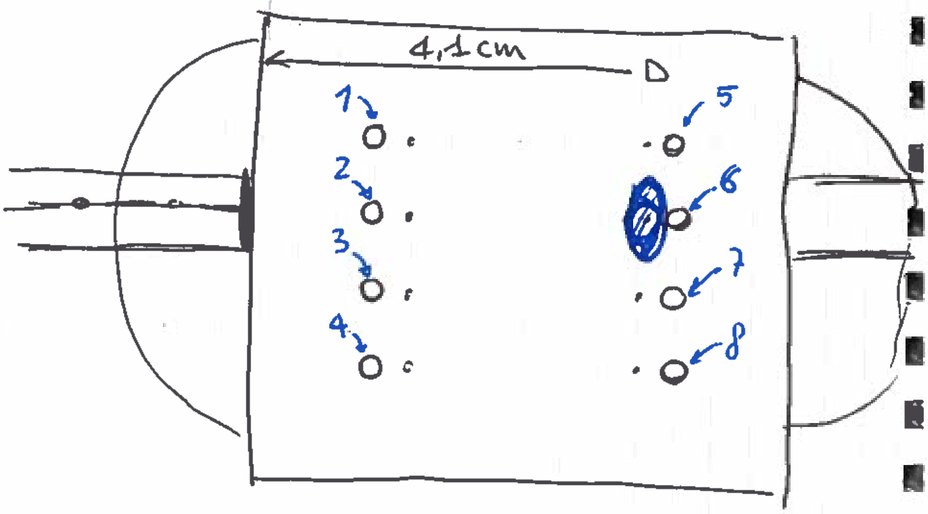


ρ = ~~10~~ 5 mm

inclusione sul bordo phantom dinamico per omogeneo (vedi figura sopra)

Poi si muove di 3 cm (~~900~~ passi) per diventare eterogeneo

RIFATTO MEGLIO a lato



__Power injected__

@ 238 → 325 μW

@ 250 → 1,137 mW

@ 260 → 2,408 mW

@ 270 → 2,340 mW

@ 170 → 1,483 μW

@ 150 → 0,266 μW

@ 1~~0~~40 → ~~2660~~,113 μW

homo: 0
heterogeneous: 13~~28~~ passi ⇒ 4,1 cm

Inclusione centrata sotto fibre lancio 6

Collection area ⌀: 8 mm

SOLS0054
INF 100 rep @ 400 ms