

Constants		Notation	Values	Units	Measured
speed of light in vacuum		C	3,00E+08	m/s	
Plank constant		h	6,63E-34	J.s	
Parameters					
Laser power output		Plaser	6,30E-03	W	7,00E-03
Number of FC connectors		Nfc	5	-	
FC connector losses		Lfc	-0,10	db	
Number of 1->2 splitters		Ns	1	-	
1->2 splitters losses		Ls	-3,70	db	
Modulator losses		Lmod	-6,00	db	
Switch losses		Lswitch	-2,00	db	
PM fibres NA		θ	0,0830	-	
visibility		V	0,6000	-	
distance fibres to CCD		L	0,6	m	
effective well size		w	200000	-	
pixel size		e	2,40E-05	m	
CCD mean quantum efficiency		ρ_pix	8,00E-01	-	
metrology wavelength		λm	6,32E-07	m	
Detector minimum read time		Tmin	1,00E-03	s	
Number of metrology photons needed / pixel		Np_e	1,90E+08	-	
Intermediate quantities					
Transmission of integrated metrology		T	-1,22E+01	db	
Metrology power ouput (one fiber)		Ptip	3,80E-04	W	
Metrology mean power / pixel (one fiber, beam center)		Ppix	5,61E-11	W	
Photo electron max flux / pixel (one fiber, beam center)		Fe_pix	1,43E+08	s-1	
Fringe photon flux / pixel (max)		Fe_max_pix	4,57E+08	s-1	
Number of metrology frames needed		Nf	1,58E+03	-	
Final quantities					
Integration time (source limited)		Tγ_i	4,38E-04	s	0.4
Source optimality coefficient		η	2,28	-	
Integration time		Ti	1,00E-03		
Total integration time		Ttot	1,58E+00	-	