

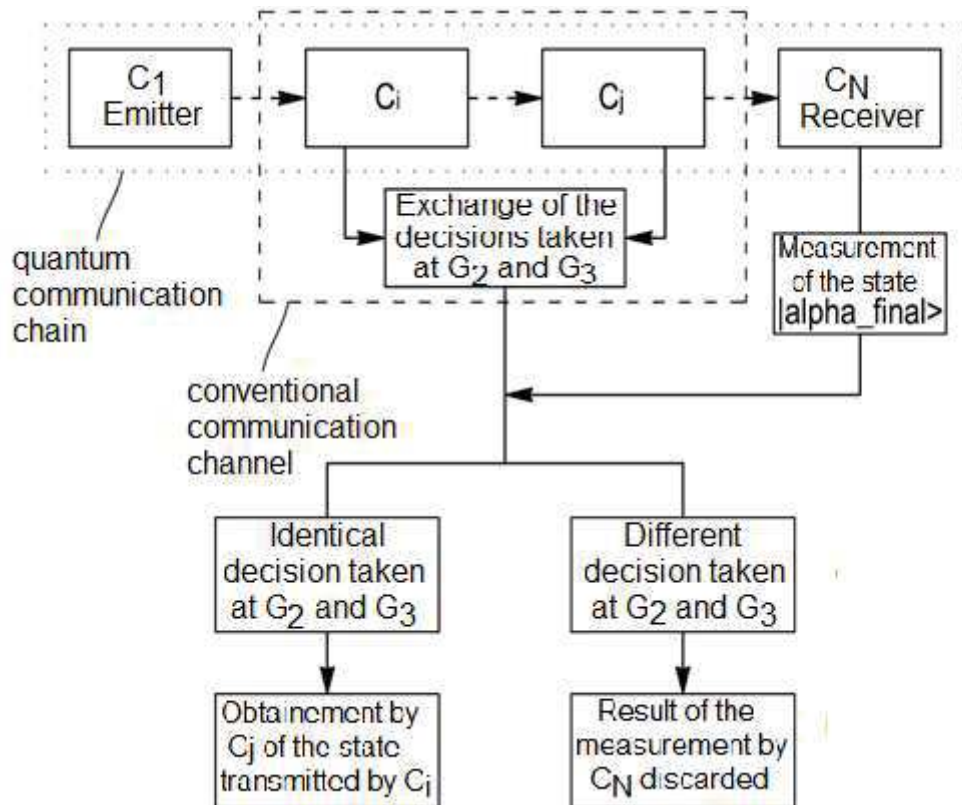
[Fig. 1]

Degree of freedom	$ 0\rangle$	$ 1\rangle$	Incompatible bases
Phase	Fixed phase P_0	$P_0 + \pi$	$\pi/2$ shifted phase
Phase difference	0	π	$\pi/2$ shifted phase
Temporal location	Time t_0	$t_0 + \delta t$	Hadamard base
Polarisation	Horizontal	Vertical	Diagonal base
Frequency	f_1	f_2	Hadamard base



The HV base (to the left) and the diagonal base (to the right) for the polarisation

[Fig. 2]

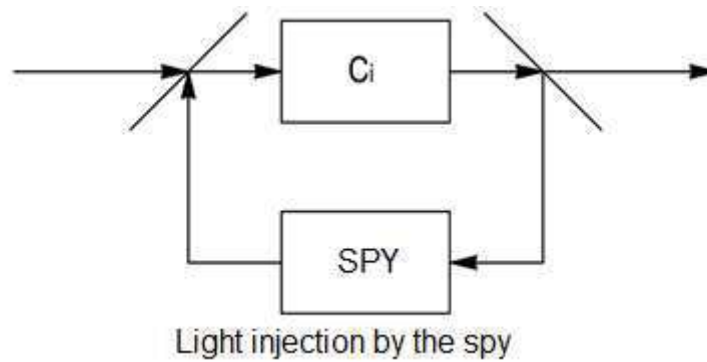


[Fig. 3]

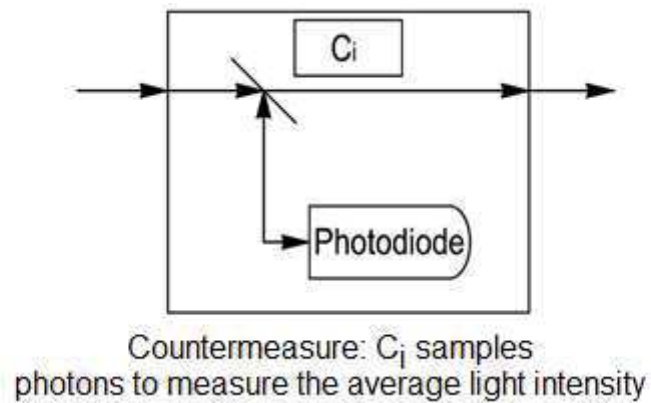
$P^{S_q} X_m |0\rangle$
 $d=2$

S_q	m	state
0	0	$ 0\rangle$
0	1	$ 1\rangle$
1	0	$ +\rangle$
1	1	$ -\rangle$

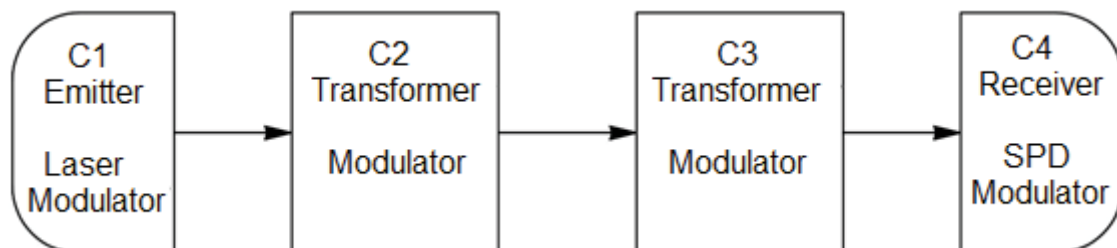
[Fig. 4]



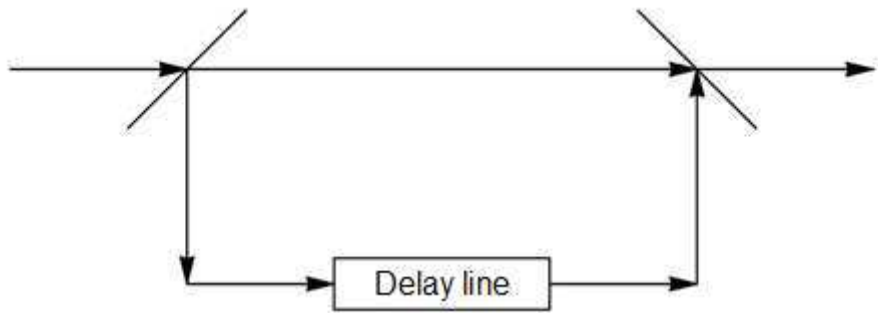
[Fig. 5]



[Fig. 6]



[Fig. 7]



[Fig. 8]

