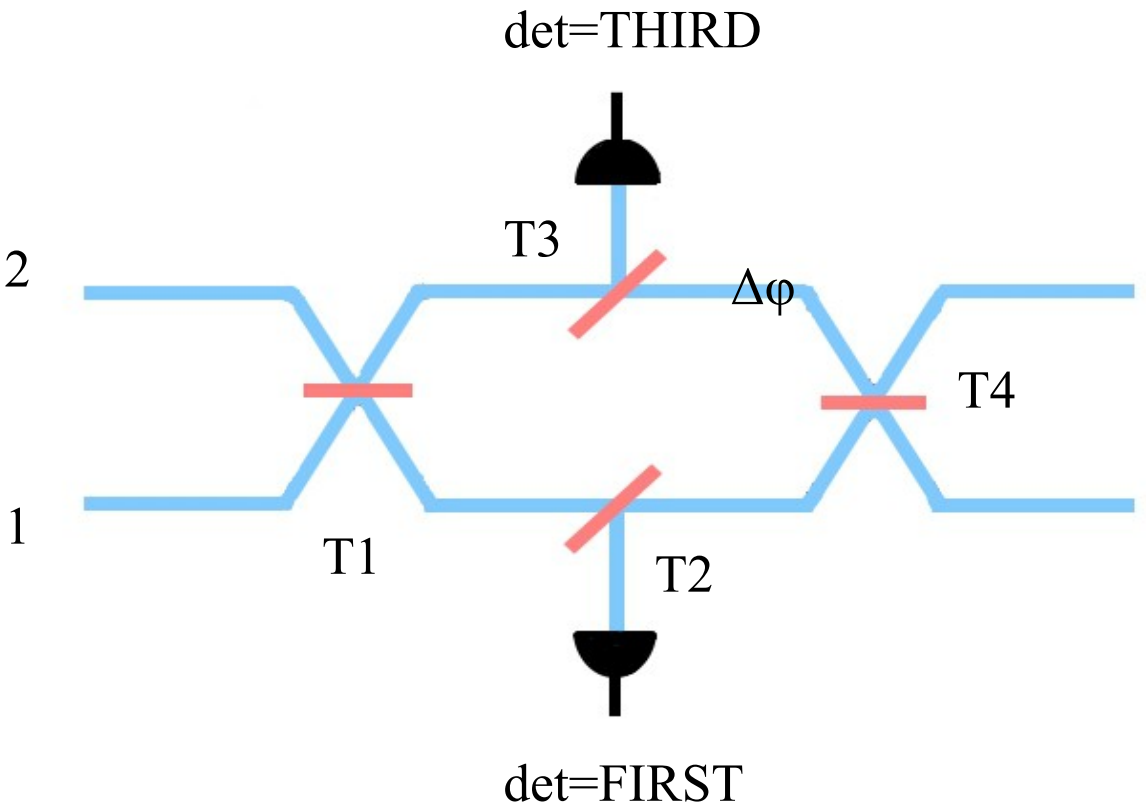
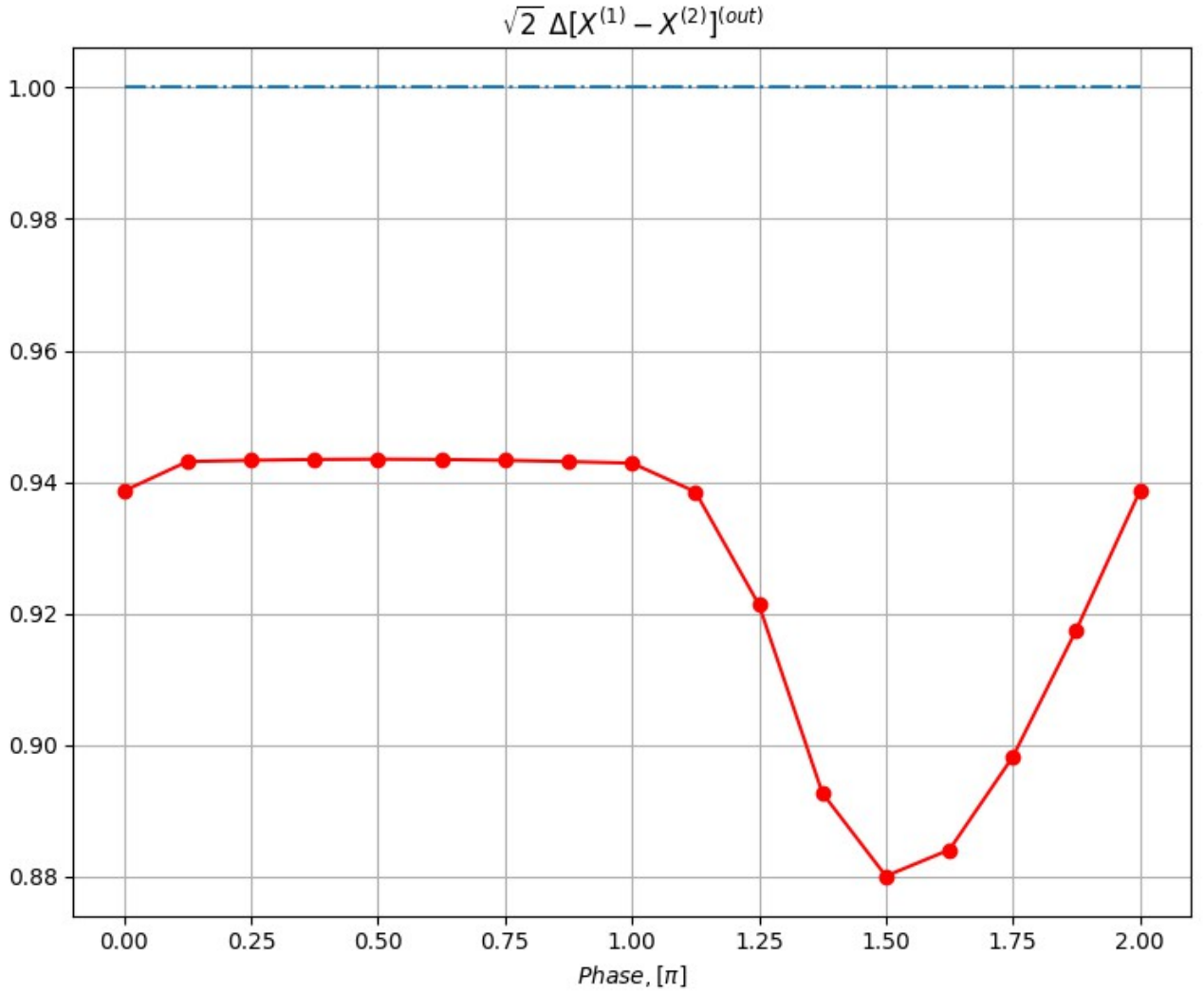
Setup.



1. Single photon goes to the second(top) channel. Coherent state (alpha=1) goes to the first(bottom) channel. **First and only first** detector clicks.



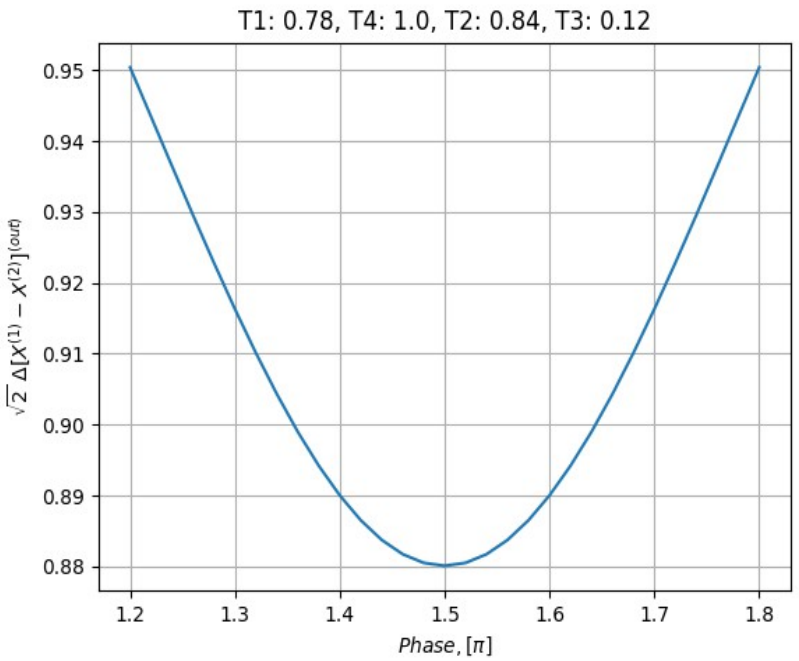
EPR[X] min values among all parameters.

Minimizing set of parameters.
Probability of current detection > 0.1

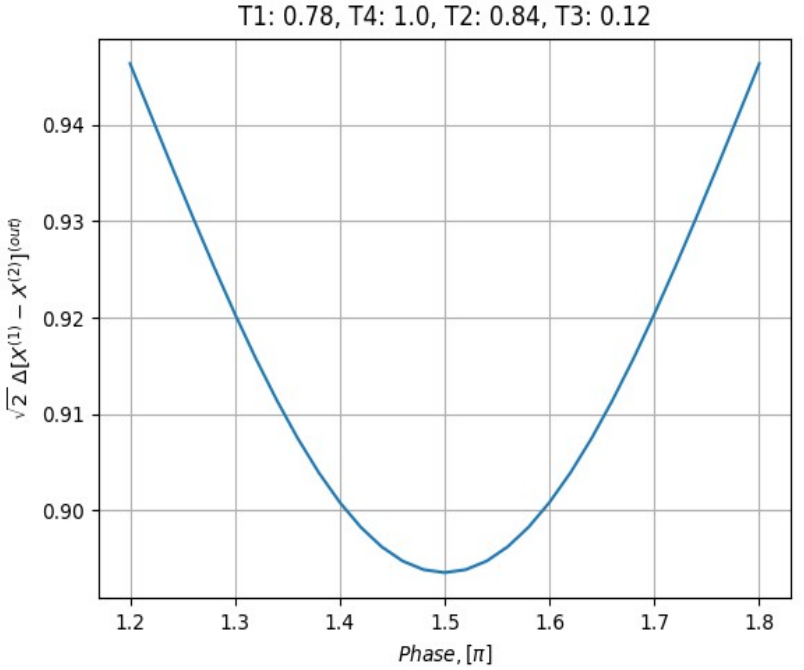
Phase, [pi]	Probab.	T1	T4	T2	T3
0.0	0.1077	0.28	0.72	0.88	0.86
0.125	0.1002	0.7	1.0	0.86	0.0
0.25	0.1002	0.7	1.0	0.86	0.0
0.375	0.1002	0.7	1.0	0.86	0.0
0.5	0.1002	0.7	1.0	0.86	0.0
0.625	0.1002	0.7	1.0	0.86	0.0
0.75	0.1002	0.7	1.0	0.86	0.0
0.875	0.1002	0.7	1.0	0.86	0.0
1.0	0.1002	0.7	1.0	0.86	0.0
1.125	0.1003	0.7	1.0	0.86	0.01
1.25	0.1011	0.7	1.0	0.86	0.08
1.375	0.1094	0.28	1.0	0.88	0.9
1.5	0.1007	0.78	1.0	0.84	0.12
1.625	0.1094	0.28	0.98	0.88	0.9
1.75	0.1022	0.7	0.9	0.86	0.16
1.875	0.1022	0.7	0.82	0.86	0.16
2.0	0.1077	0.28	0.72	0.88	0.86

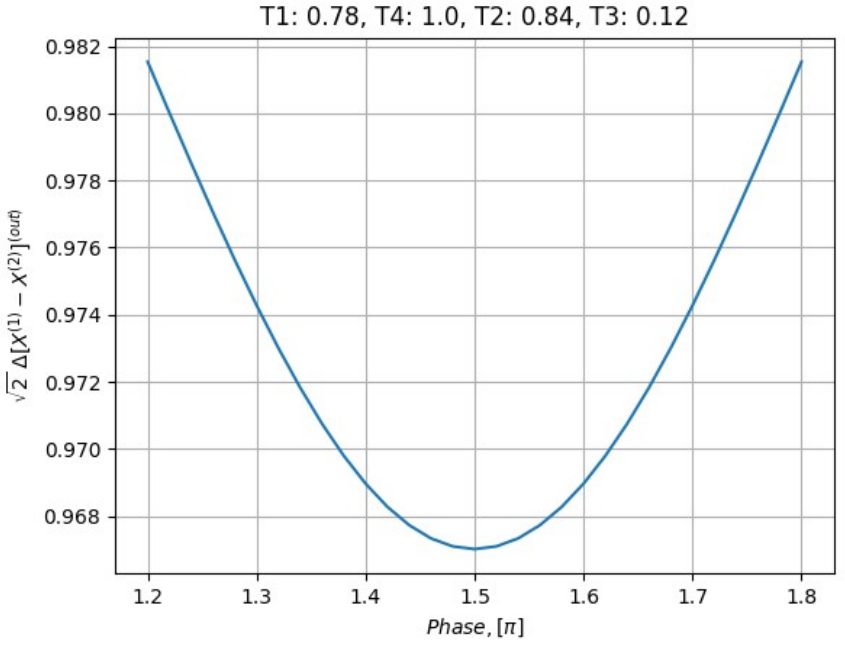
Phase dependence around the point with the phase = 1.5pi.

Mean phot. number **«alpha» = 1**



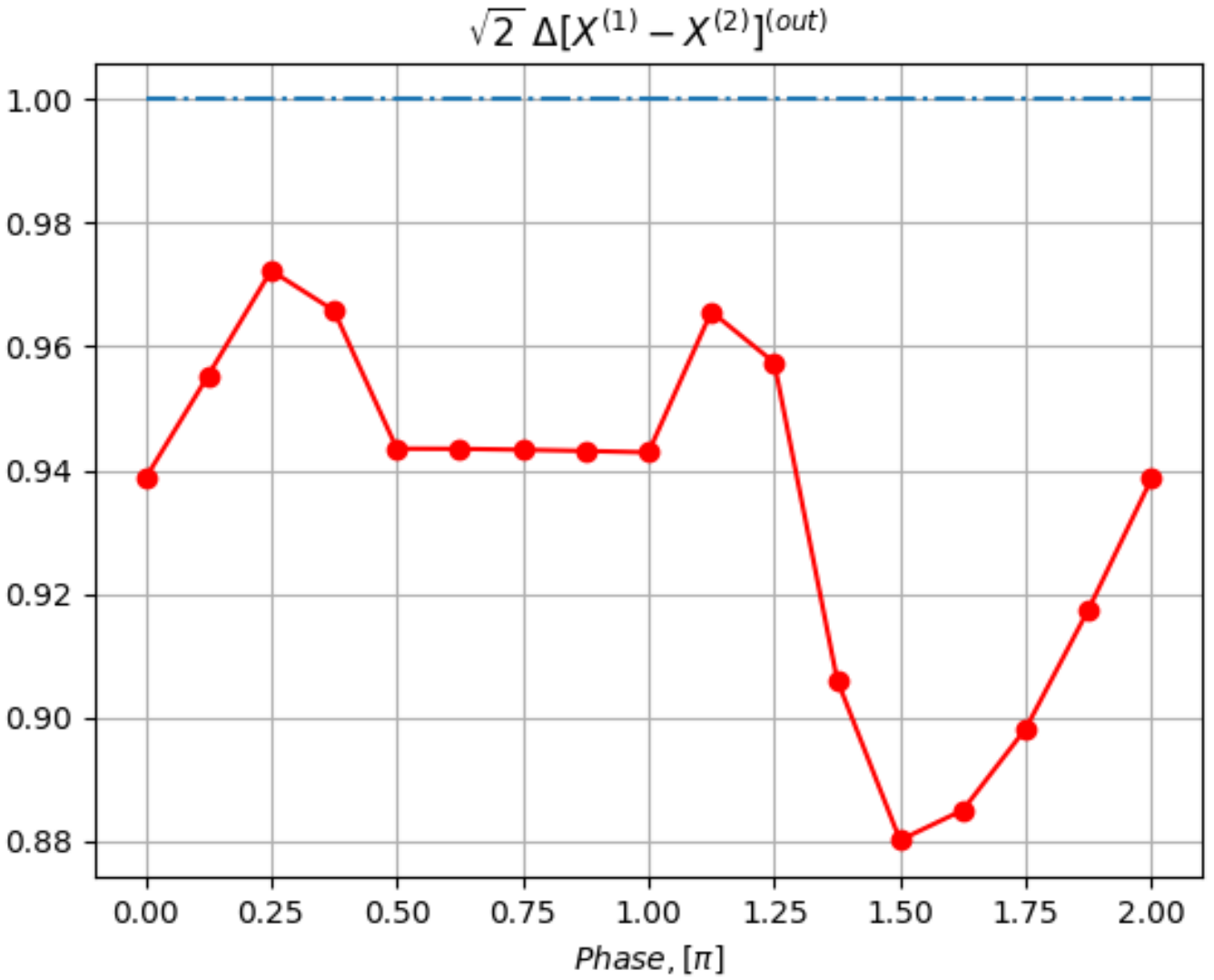
Mean phot. number **«alpha» = 0.5**





Mean phot. number **«alpha» = 0.2**

2. Single photon goes to the second(top) channel. Coherent state (alpha=1) goes to the first(bottom) channel. **Third and only third** detector clicks.



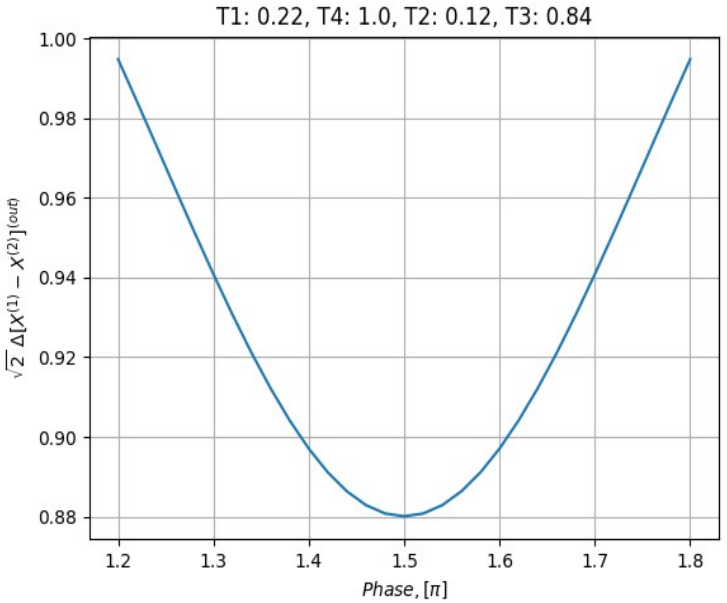
EPR[X] min values among all parameters.

Minimizing set of parameters.
Probability of current detection > 0.1

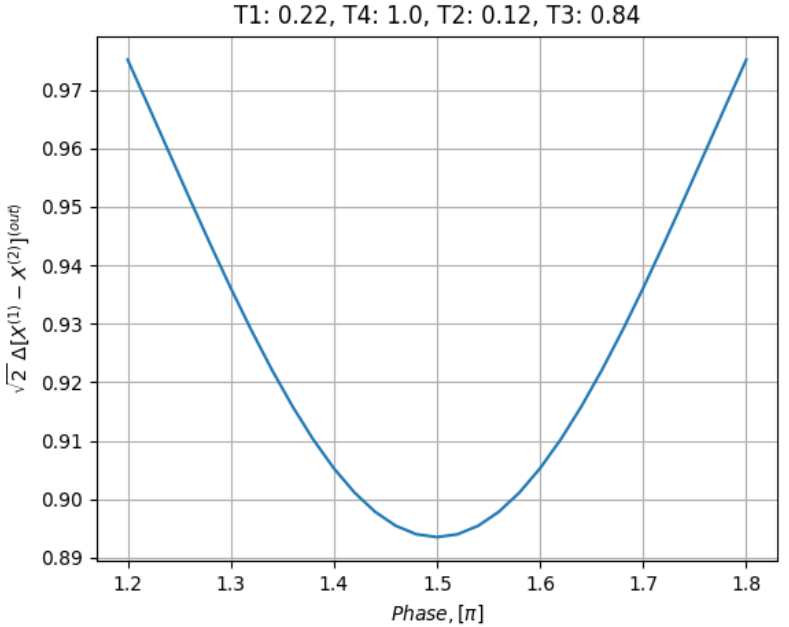
Phase, [pi]	Probab.	T1	T4	T2	T3
0.0	0.1077	0.72	0.28	0.86	0.88
0.125	0.1081	0.4	0.0	0.06	0.86
0.25	0.6096	0.68	1.0	1.0	0.0
0.375	0.1002	0.3	1.0	0.0	0.86
0.5	0.1002	0.3	1.0	0.0	0.86
0.625	0.1002	0.3	0.86	0.0	0.86
0.75	0.1002	0.3	0.5	0.0	0.86
0.875	0.1002	0.3	0.14	0.0	0.86
1.0	0.1002	0.3	0.0	0.0	0.86
1.125	0.1002	0.3	0.0	0.0	0.86
1.25	0.5399	0.72	1.0	1.0	0.24
1.375	0.1007	0.22	1.0	0.12	0.84
1.5	0.1007	0.22	1.0	0.12	0.84
1.625	0.1007	0.22	0.94	0.12	0.84
1.75	0.1022	0.3	0.78	0.16	0.86
1.875	0.1022	0.3	0.56	0.16	0.86
2.0	0.1077	0.72	0.28	0.86	0.88

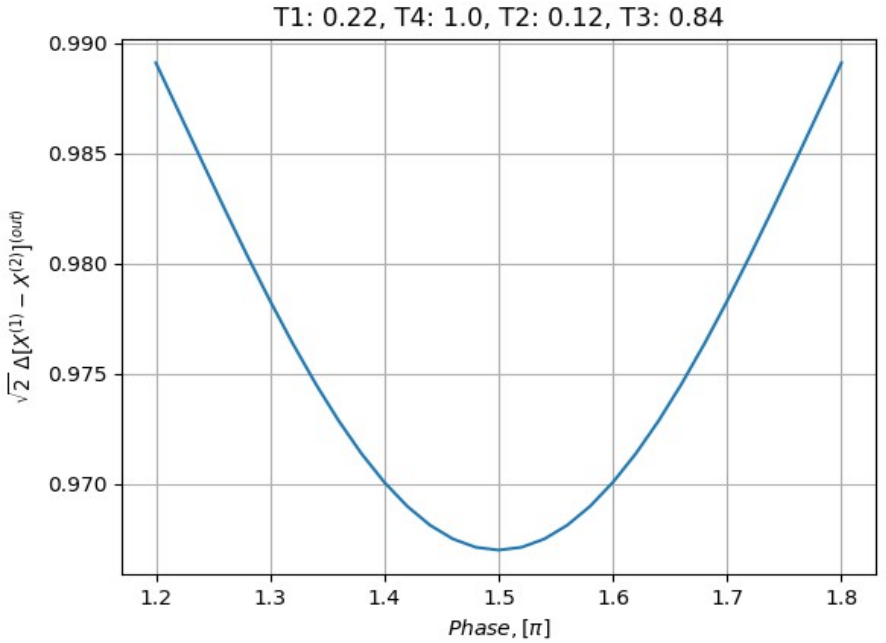
Phase dependence around the point
with the phase = 1.5pi.

Mean phot. number **«alpha» = 1**



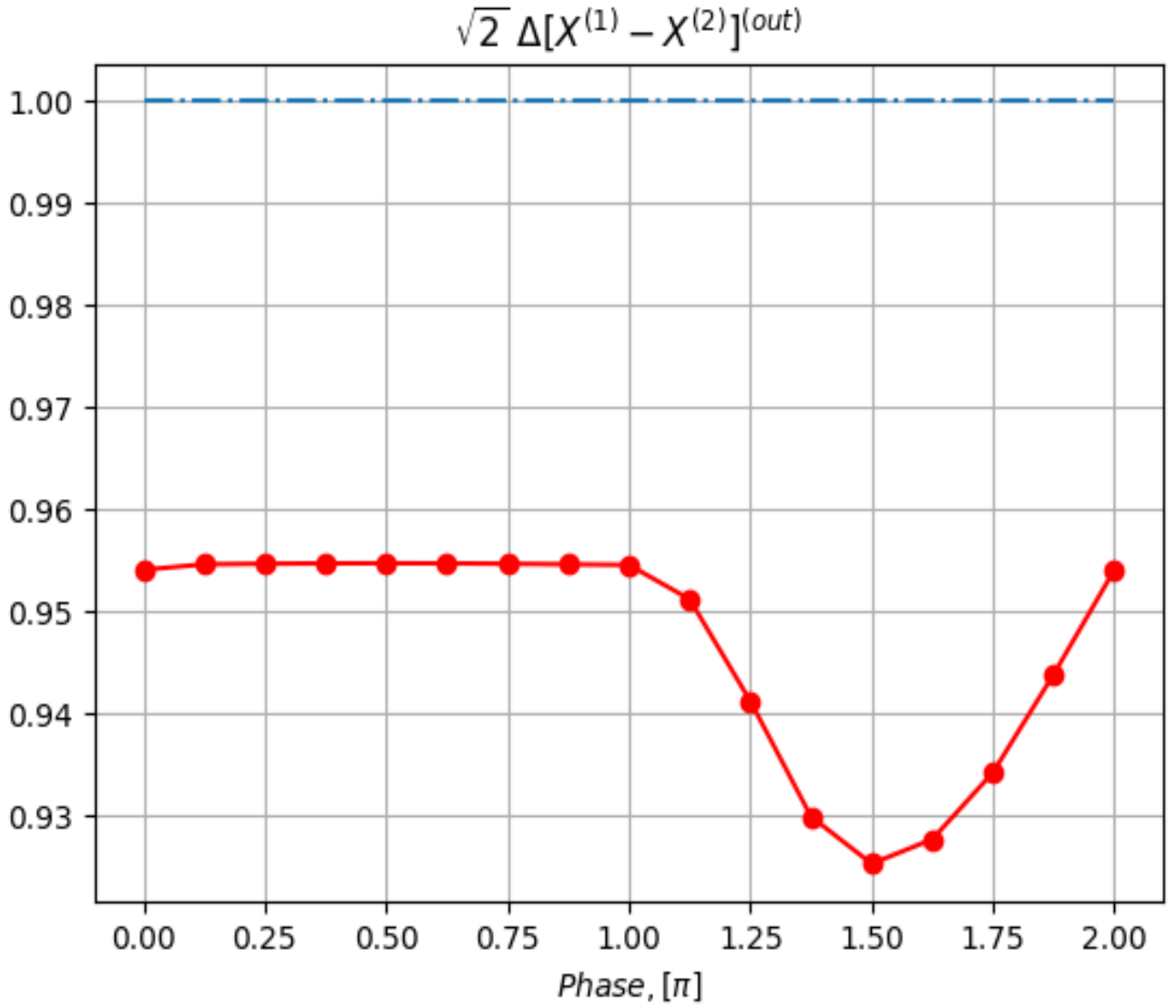
Mean phot. number **«alpha» = 0.5**





Mean phot. number
«alpha» = 0.2

3. Single photon goes to the second(top) channel. Coherent state (alpha=1) goes to the first(bottom) channel. **Both** detectors click.



Minimizing set of parameters.
Probability of current detection > 0.1

Phase, [pi]	Probab.	T1	T4	T2	T3
0.0	0.101	0.18	0.97	0.72	0.1
0.125	0.1025	0.18	1.0	0.74	0.0
0.25	0.1025	0.18	1.0	0.74	0.0
0.375	0.1025	0.18	1.0	0.74	0.0
0.5	0.1025	0.18	1.0	0.74	0.0
0.625	0.1025	0.18	1.0	0.74	0.0
0.75	0.1025	0.18	1.0	0.74	0.0
0.875	0.1025	0.18	1.0	0.74	0.0
1.0	0.1025	0.18	1.0	0.74	0.0
1.125	0.101	0.18	1.0	0.72	0.1
1.25	0.1003	0.18	1.0	0.66	0.28
1.375	0.1002	0.18	1.0	0.62	0.36
1.5	0.1013	0.8	1.0	0.36	0.58
1.625	0.1013	0.8	0.92	0.36	0.58
1.75	0.1002	0.82	0.7	0.36	0.62
1.875	0.1002	0.82	0.4	0.36	0.62
2.0	0.101	0.18	0.97	0.72	0.1