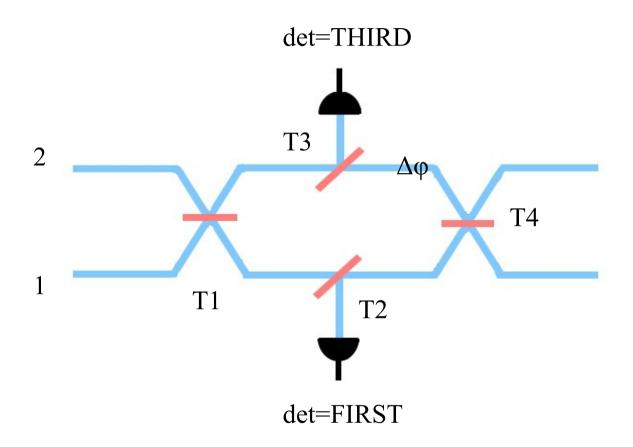
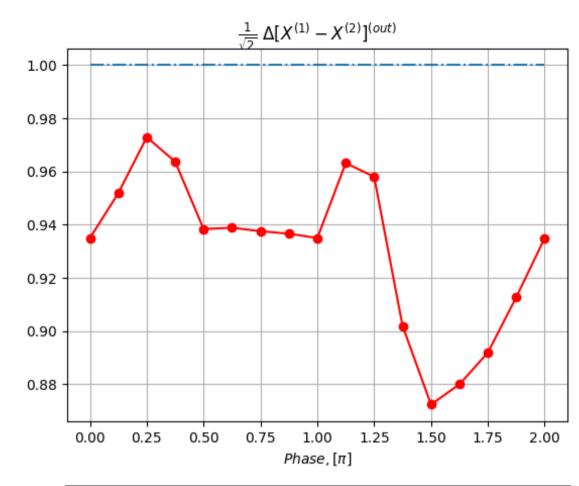
## Setup.



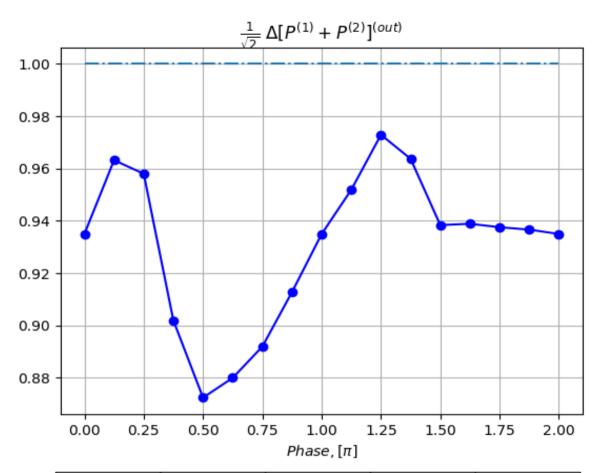
1. Single photon goes to the second(top) channel. Coherent state (alpha=1) goes to the first(bottom) channel. **Third and only third** detector clicks.

EPR[X] min values among all BS parameters.



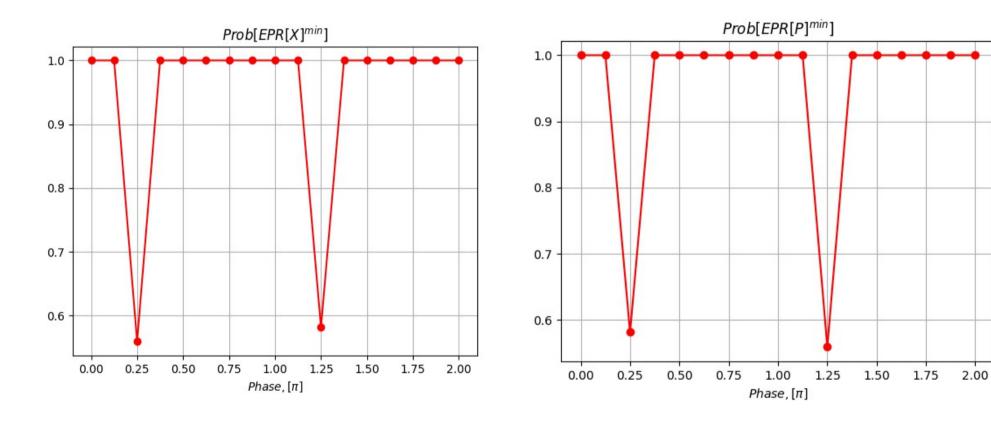
Phase, [pl]	п	T4	T2	T3
0.0	0.30000000000000001	0.1999999999999998	0.10008	0.9999
0.125	0.5000000000000000001	0.0	0.10008	0.9999
0.25	0.700000000000000001	1.0	0.9999	0.0001
0.375	0.30000000000000001	1.0	0.0001	0.9999
0.5	0.1999999999999998	1.0	0.0001	0.9999
0.625	0.1999999999999998	0.799999999999999	0.0001	0.9999
0.75	0.1	0.500000000000000001	0.0001	0.9999
0.875	0.1	0.1	0.0001	0.9999
1.0	0.1	0.0	0.0001	0.9999
1.125	0.30000000000000001	0.0	0.0001	0.9999
125	0.700000000000000001	10	0.9999	0.2000599999999996
1.375	0.1999999999999998	1.0	0.10008	0.9999
15	0.199999999999998	10	0.10008	0.9999
1625	0.1999999999999998	0.899999999999999	0.10008	0.9999
175	0.1999999999999998	0.799999999999999	0.10008	0.9999
1875	0.1999999999999998	0.500000000000000001	0.10008	0.9999
2.0	0.30000000000000001	0.1999999999999998	0.10008	0.9999

EPR[P] min values among all BS parameters.

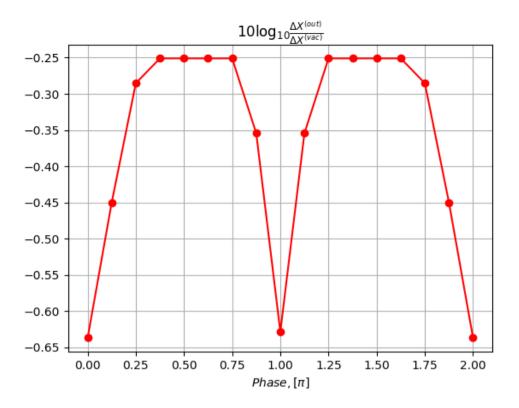


Phase, [pi]	п	T4	T2	T3
0.0	0.1	10	0.0001	0.9999
0.125	0.30000000000000001	10	0.0001	0.9999
0.25	0.700000000000000001	0.0	0.9999	0.2000599999999996
0.375	0.1999999999999998	0.0	0.10008	0.9999
0.5	0.199999999999998	0.0	0.10008	0.9999
0.625	0.1999999999999998	0.1	0.10008	0.9999
0.75	0.199999999999998	0.199999999999998	0.10008	0.9999
0.875	0.1999999999999998	0.500000000000000001	0.10008	0.9999
1.0	0.30000000000000001	0.799999999999999	0.10008	0.9999
1.125	0.500000000000000001	10	0.10008	0.9999
1.25	0.700000000000000001	0.0	0.9999	0.0001
1375	0.30000000000000001	0.0	0.0001	0.9999
15	0.1999999999999998	0.0	0.0001	0.9999
1625	0.199999999999998	0.1999999999999998	0.0001	0.9999
175	0.1	0.500000000000000001	0.0001	0.9999
1875	0.1	0.899999999999999	0.0001	0.9999
2.0	0.1	1.0	0.0001	0.9999

Probabilities for **only third** detector to click in case of EPR minimizing configuration form the previous slide.

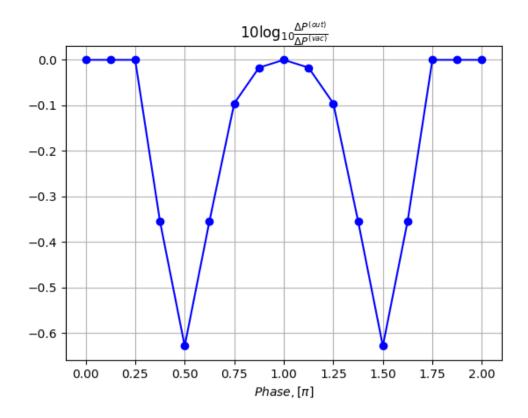


Max squeezing[X] over all parameters.



Phase, [pl]	п	T4	T2	T3
0.0	0.30000000000000001	0.1999999999999998	0.10008	0.9999
0.125	0.1999999999999998	0.4	0.10008	0.9999
0.25	0.1	0.899999999999999	0.10008	0.9999
0.375	0.700000000000000001	1.0	0.9999	0.0001
0.5	0.700000000000000001	1.0	0.9999	0.0001
0.625	0.700000000000000001	1.0	0.9999	0.0001
0.75	0.700000000000000001	10	0.9999	0.0001
0.875	0.1	0.0	0.0001	0.9999
10	0.1	0.0	0.0001	0.9999
1125	0.1	0.0	0.0001	0.9999
1.25	0.700000000000000001	10	0.9999	0.0001
1375	0.700000000000000001	1.0	0.9999	0.0001
15	0.700000000000000001	10	0.9999	0.0001
1625	0.700000000000000001	1.0	0.9999	0.0001
175	0.1	0.899999999999999	0.10008	0.9999
1875	0.1999999999999998	0.4	0.10008	0.9999
2.0	0.30000000000000001	0.1999999999999998	0.10008	0.9999

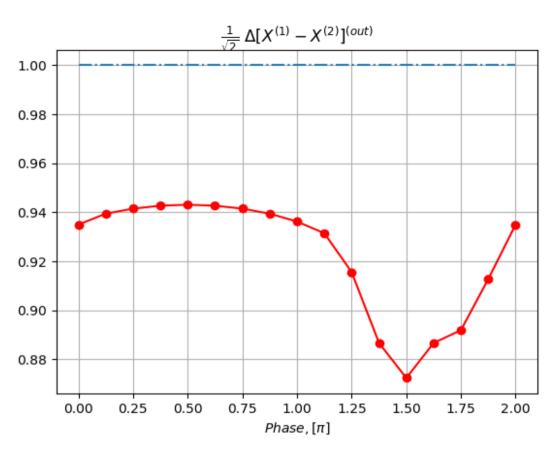
Max squeezing[P] over all parameters.



Phase, [pi]	п	T4	T2	T3
0.0	0.1	1.0	0.0001	0.9999
0.125	0.1	1.0	0.0001	0.9999
0.25	0.1	1.0	0.0001	0.9999
0.375	0.1	0.0	0.0001	0.9999
0.5	0.1	0.0	0.0001	0.9999
0.625	0.1	0.0	0.0001	0.9999
0.75	0.70000000000000001	0.50000000000000001	0.79994	0.9999
0.875	0.60000000000000001	0.60000000000000001	0.59998	0.79994
1.0	0.1	1.0	0.0001	0.9999
1.125	0.60000000000000001	0.60000000000000001	0.59998	0.79994
1.25	0.70000000000000001	0.50000000000000001	0.79994	0.9999
1.375	0.1	0.0	0.0001	0.9999
1.5	0.1	0.0	0.0001	0.9999
1.625	0.1	0.0	0.0001	0.9999
1.75	0.1	1.0	0.0001	0.9999
1.875	0.1	1.0	0.0001	0.9999
2.0	0.1	1.0	0.0001	0.9999

2. 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] correlations and minimizing parameters.



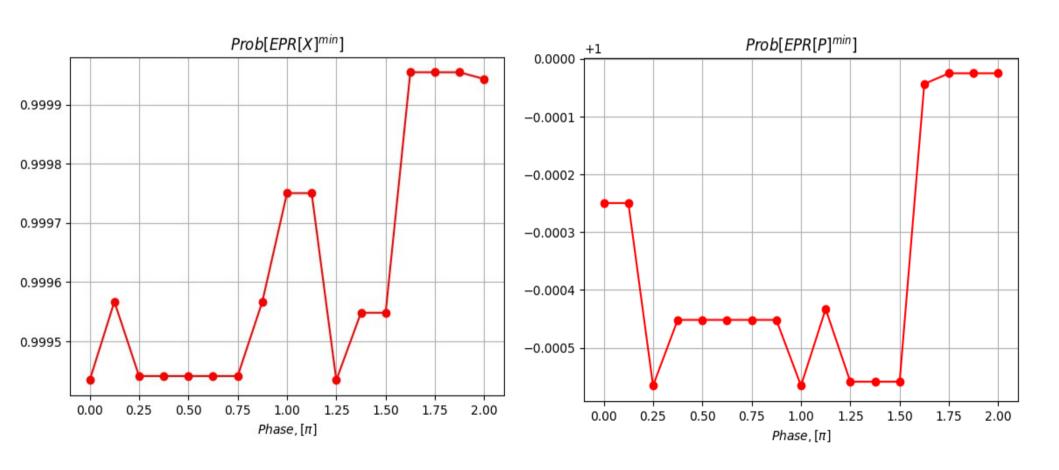
Phase, [pi]	п	T4	T2	ТЗ
0.0	0.70000000000000001	0.799999999999999	0.9999	0.10008
0.125	0.799999999999999	1.0	0.9999	0.0001
0.25	0.70000000000000001	1.0	0.9999	0.0001
0.375	0.70000000000000001	1.0	0.9999	0.0001
0.5	0.70000000000000001	1.0	0.9999	0.0001
0.625	0.70000000000000001	1.0	0.9999	0.0001
0.75	0.70000000000000001	1.0	0.9999	0.0001
0.875	0.799999999999999	1.0	0.9999	0.0001
1.0	0.899999999999999	1.0	0.9999	0.0001
1.125	0.899999999999999	1.0	0.9999	0.0001
1.25	0.70000000000000001	1.0	0.9999	0.10008
1.375	0.799999999999999	1.0	0.9999	0.10008
1.5	0.799999999999999	1.0	0.9999	0.10008
1.625	0.799999999999999	1.0	0.9999	0.10008
1.75	0.799999999999999	0.899999999999999	0.9999	0.10008
1.875	0.799999999999999	0.799999999999999	0.9999	0.10008
2.0	0.70000000000000001	0.799999999999999	0.9999	0.10008

 $\frac{1}{\sqrt{2}}\Delta[P^{(1)}+P^{(2)}]^{(out)}$ 1.00 0.98 0.96 0.94 0.92 0.90 0.88 0.50 0.00 0.25 0.75 1.00 1.25 1.50 1.75 2.00 Phase, [π]

EPR[P] correlations and minimizing parameters.

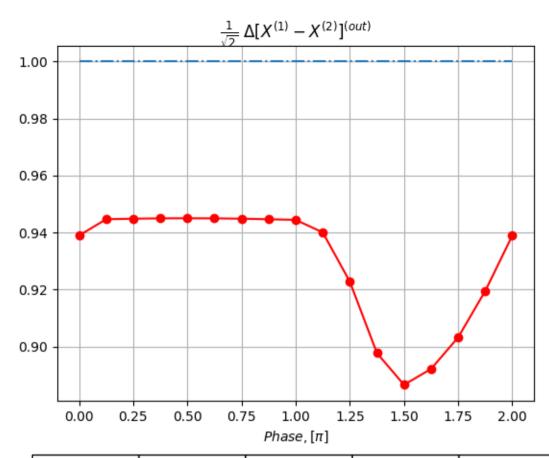
Phase, [pl]	п	T4	T2	ТЗ
0.0	0.89999999999999	0.0	0.9999	0.0001
0.125	0.899999999999999	0.0	0.9999	0.0001
0.25	0.700000000000000001	ao	0.9999	0.10008
0.375	0.799999999999999	ao	0.9999	0.10008
0.5	0.799999999999999	ao	0.9999	0.10008
0.625	0.799999999999999	0.0	0.9999	0.10008
0.75	0.799999999999999	0.1	0.9999	0.10008
0.875	0.799999999999999	0.1999999999999998	0.9999	0.10008
1.0	0.700000000000000001	0.1999999999999998	0.9999	0.10008
1125	0.799999999999999	0.0	0.9999	0.0001
125	0.700000000000000001	0.0	0.9999	0.0001
1375	0.700000000000000001	αο	0.9999	0.0001
15	0.700000000000000001	0.0	0.9999	0.0001
1625	0.799999999999999	ao	0.9999	0.0001
175	0.899999999999999	ao	0.9999	0.0001
1875	0.899999999999999	ao	0.9999	0.0001
2.0	0.899999999999999	ao	0.9999	0.0001

Probabilities for **only first** detector to click in case of EPR minimizing configuration form the previous slide.



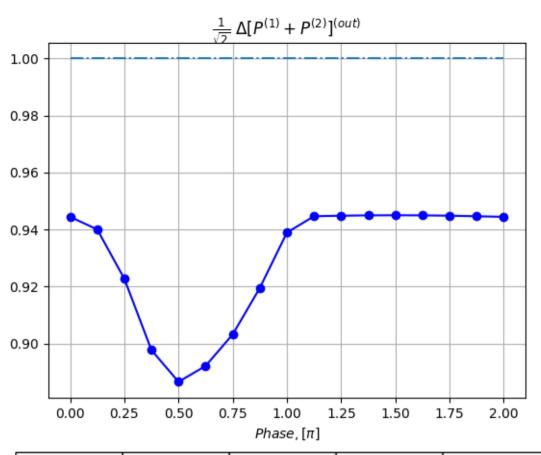
1. Single photon goes to the second(top) channel. Coherent state (alpha=1) goes to the first(bottom) channel. **Both** detectors click.

EPR[X] correlations and minimizing parameters.



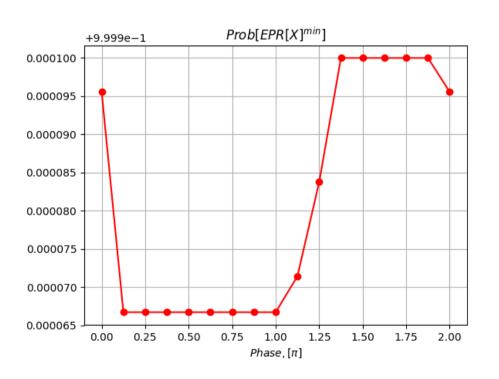
Phase, [pl]	π	T4	T2	Т3
0.0	0.1999999999999998	0.799999999999999	0.9999	0.899919999999998
0.125	0.1999999999999998	1.0	0.9999	0.0001
0.25	0.1999999999999998	10	0.9999	0.0001
0.375	0.1999999999999998	1.0	0.9999	0.0001
0.5	0.799999999999999	10	0.0001	0.9999
0.625	0.1999999999999998	1.0	0.9999	0.0001
0.75	0.799999999999999	0.500000000000000001	0.0001	0.9999
0.875	0.1999999999999998	1.0	0.9999	0.0001
1.0	0.799999999999999	0.0	0.0001	0.9999
1125	0.1999999999999998	1.0	0.9999	0.2000599999999996
1.25	0.1999999999999998	10	0.9999	0.59998
1375	0.1999999999999998	1.0	0.9999	0.9999
1.5	0.799999999999999	10	0.9999	0.9999
1.625	0.799999999999999	0.899999999999999	0.9999	0.9999
1.75	0.799999999999999	0.700000000000000001	0.9999	0.9999
1875	0.799999999999999	0.500000000000000001	0.9999	0.9999
2.0	0.1999999999999998	0.799999999999999	0.9999	0.899919999999998

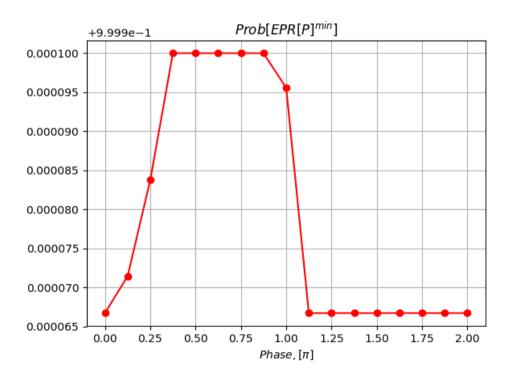
EPR[P] correlations and minimizing parameters.



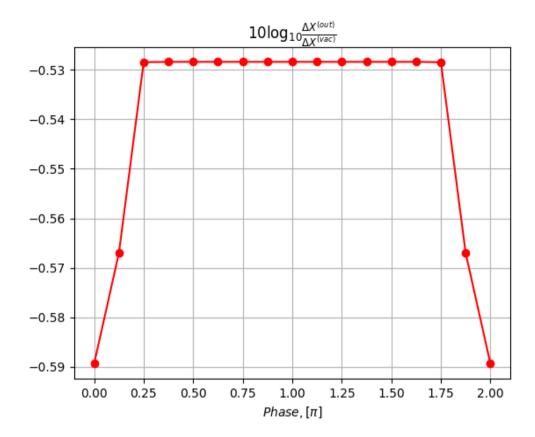
Phase, [pl]	п	T4	T2	ТЗ
0.0	0.799999999999999	10	0.0001	0.9999
0.125	0.1999999999999998	0.0	0.9999	0.2000599999999996
0.25	0.1999999999999998	0.0	0.9999	0.59998
0.375	0.1999999999999998	0.0	0.9999	0.9999
0.5	0.799999999999999	0.0	0.9999	0.9999
0.625	0.799999999999999	0.1	0.9999	0.9999
0.75	0.799999999999999	0.30000000000000001	0.9999	0.9999
0.875	0.799999999999999	0.500000000000000001	0.9999	0.9999
1.0	0.1999999999999998	0.1999999999999998	0.9999	0.899919999999998
1.125	0.1999999999999998	0.0	0.9999	0.0001
1.25	0.1999999999999998	0.0	0.9999	0.0001
1375	0.1999999999999998	0.0	0.9999	0.0001
15	0.799999999999999	0.0	0.0001	0.9999
1.625	0.1999999999999998	0.0	0.9999	0.0001
175	0.799999999999999	0.500000000000000001	0.0001	0.9999
1875	0.1999999999999998	0.0	0.9999	0.0001
2.0	0.799999999999999	10	0.0001	0.9999

Probabilities for **Both** detectors to click in case of EPR minimizing configuration form the previous slide.



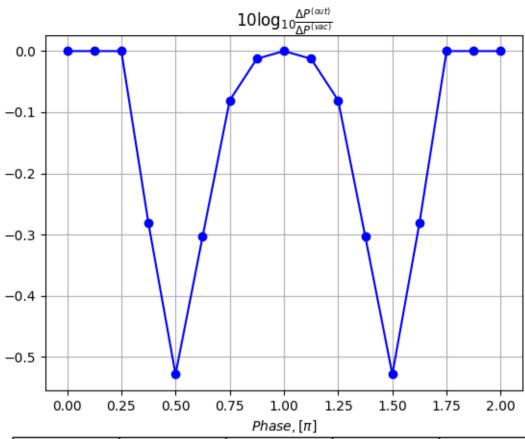


Max squeezing[X] over all parameters.



Phase, [pl]	п	T4	T2	Т3
0.0	0.1999999999999998	0.799999999999999	0.9999	0.899919999999998
0.125	0.1999999999999998	0.899999999999999	0.9999	0.69996
0.25	0.1999999999999998	0.899999999999999	0.9999	0.500000000000000001
0.375	0.1999999999999998	1.0	0.9999	0.0001
0.5	0.1999999999999998	10	0.9999	0.0001
0.625	0.1999999999999998	1.0	0.9999	0.0001
0.75	0.1999999999999998	10	0.9999	0.0001
0.875	0.1999999999999998	1.0	0.9999	0.0001
1.0	0.799999999999999	0.0	0.0001	0.9999
1.125	0.1999999999999998	1.0	0.9999	0.0001
125	0.1999999999999998	10	0.9999	0.0001
1375	0.1999999999999998	1.0	0.9999	0.0001
15	0.1999999999999998	10	0.9999	0.0001
1625	0.1999999999999998	1.0	0.9999	0.0001
175	0.1999999999999998	0.899999999999999	0.9999	0.500000000000000001
1875	0.1999999999999998	0.899999999999999	0.9999	0.69996
2.0	0.1999999999999998	0.799999999999999	0.9999	0.899919999999998

Max squeezing[P] over all parameters.

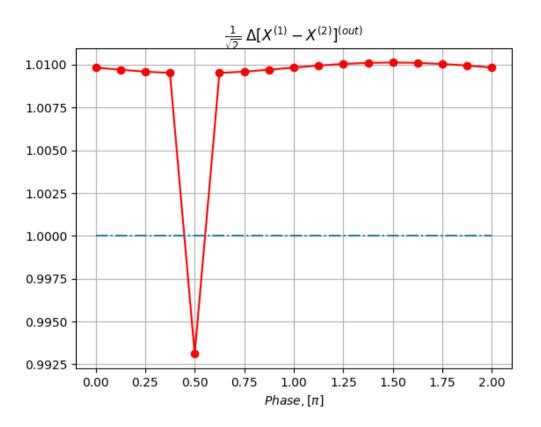


Phase, [pi]	п	T4	T2	T3
0.0	1.0	0.0	0.9999	0.0001
0.125	1.0	0.0	0.9999	0.0001
0.25	1.0	0.0	0.9999	0.0001
0.375	0.799999999999999	0.0	0.0001	0.9999
0.5	0.799999999999999	0.0	0.0001	0.9999
0.625	0.799999999999999	0.1	0.50000000000000001	0.9999
0.75	0.799999999999999	0.50000000000000001	0.9999	0.899919999999998
0.875	0.799999999999999	0.70000000000000001	0.899919999999998	0.69996
1.0	1.0	0.0	0.9999	0.0001
1.125	0.799999999999999	0.70000000000000001	0.899919999999998	0.69996
1.25	0.799999999999999	0.50000000000000001	0.9999	0.899919999999998
1.375	0.799999999999999	0.1	0.50000000000000001	0.9999
1.5	0.799999999999999	0.0	0.0001	0.9999
1.625	0.799999999999999	0.0	0.0001	0.9999
1.75	1.0	0.0	0.9999	0.0001
1.875	1.0	0.0	0.9999	0.0001
2.0	1.0	0.0	0.9999	0.0001

1. Single photon goes to the second(top) channel. Coherent state (alpha=1) goes to the first(bottom) channel.

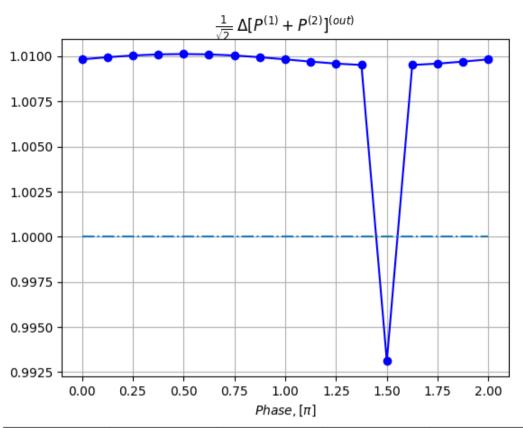
None of detectors click.

EPR[X] correlations and minimizing parameters.



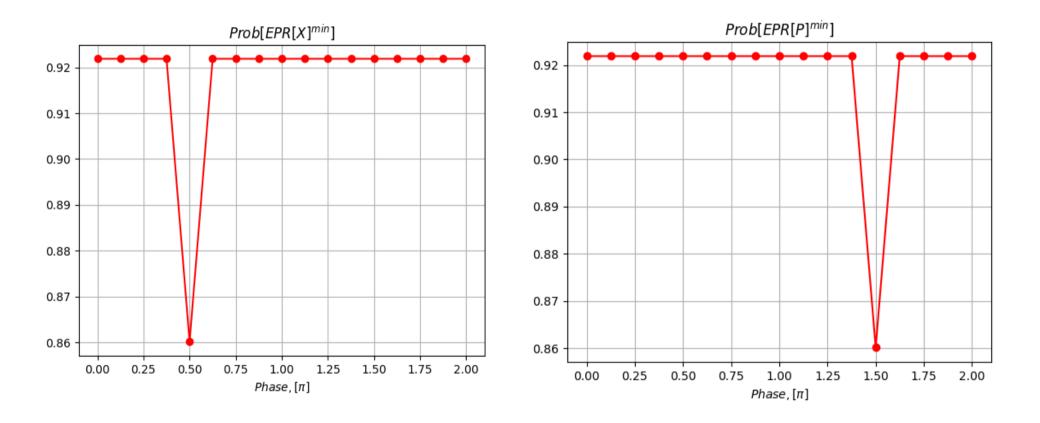
Phase, [pl]	п	T4	T2	ТЗ
0.0	0.899999999999999	10	0.99999	le-05
0.125	0.89999999999999	10	0.99999	le-05
0.25	0.899999999999999	10	0.99999	le-05
0.375	0.899999999999999	10	0.99999	le-05
0.5	0.1	10	0.10000799999999999	0.99999
0.625	0.899999999999999	10	0.99999	le-05
0.75	0.899999999999999	10	0.99999	le-05
0.875	0.899999999999999	10	0.99999	le-05
10	0.899999999999999	10	0.99999	le-05
1.125	0.899999999999999	10	0.99999	le-05
125	0.899999999999999	10	0.99999	le-05
1.375	0.899999999999999	10	0.99999	le-05
15	0.899999999999999	10	0.99999	le-05
1625	0.899999999999999	10	0.99999	le-05
175	0.1	0.500000000000000001	le-05	0.99999
1.875	0.899999999999999	10	0.99999	le-05
2.0	0.899999999999999	10	0.99999	le-05

EPR[P] correlations and minimizing parameters.

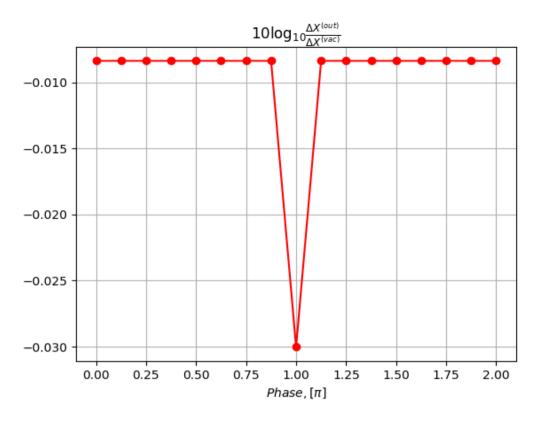


Phase, [pl]	п	T4	T2	T3
0.0	0.899999999999999	ao	0.99999	le-05
0.125	0.899999999999999	ao	0.99999	le-05
0.25	0.899999999999999	ao	0.99999	le-05
0.375	0.899999999999999	0.0	0.99999	1e-05
0.5	0.899999999999999	0.0	0.99999	1e-05
0.625	0.899999999999999	0.0	0.99999	1e-05
0.75	0.1	0.500000000000000001	le-05	0.99999
0.875	0.899999999999999	0.0	0.99999	1e-05
1.0	0.899999999999999	0.0	0.99999	1e-05
1125	0.899999999999999	0.0	0.99999	1e-05
1.25	0.899999999999999	ao	0.99999	le-05
1375	0.899999999999999	ao	0.99999	le-05
1.5	0.899999999999999	ao	0.99999	0.10000799999999999
1625	0.899999999999999	ao	0.99999	le-05
1.75	0.899999999999999	ao	0.99999	le-05
1875	0.899999999999999	ao	0.99999	le-05
2.0	0.899999999999999	0.0	0.99999	le-05

Probabilities for **None** of the detectors to click in case of EPR minimizing configuration form the previous slide.

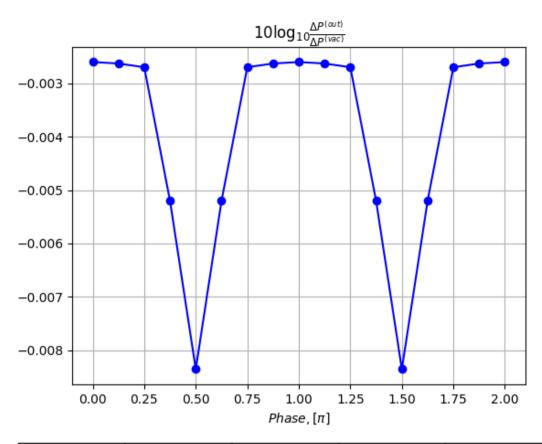


Max squeezing[X] over all parameters.



Phase, [pl]	п	T4	T2	T3
ao	ao	ao	0.10000799999999999	0.99999
0.125	10	10	0.99999	0.300004000000000005
0.25	10	1.0	0.99999	0.300004000000000005
0.375	10	10	0.99999	0.300004000000000005
0.5	10	1.0	0.99999	0.300004000000000005
0.625	10	10	0.99999	0.300004000000000005
0.75	10	1.0	0.99999	0.300004000000000005
0.875	10	1.0	0.99999	0.300004000000000005
1.0	0.899999999999999	0.500000000000000001	0.99999	0.10000799999999999
1125	10	1.0	0.99999	0.300004000000000005
1.25	10	1.0	0.99999	0.30000400000000005
1375	10	10	0.99999	0.30000400000000005
1.5	10	1.0	0.99999	0.30000400000000005
1625	10	10	0.99999	0.30000400000000005
1.75	10	1.0	0.99999	0.30000400000000005
1875	10	10	0.99999	0.30000400000000005
2.0	ao	ao	0.1000079999999999	0.99999

Max squeezing[P] over all parameters.



Phase, [pl]	п	T4	T2	T3
0.0	0.1	10	le-05	0.99999
0.125	0.899999999999999	ao	0.99999	le-05
0.25	0.899999999999999	0.0	0.99999	le-05
0.375	0.0	0.0	0.2000060000000000002	0.99999
0.5	0.0	0.0	0.10000799999999999	0.99999
0.625	0.0	0.0	0.2000060000000000002	0.99999
0.75	0.899999999999999	0.0	0.99999	le-05
0.875	0.899999999999999	0.0	0.99999	le-05
10	0.1	10	le-05	0.99999
1125	0.899999999999999	0.0	0.99999	le-05
125	0.899999999999999	ao	0.99999	le-05
1375	0.0	ao	0.10000799999999999	0.99999
15	0.0	0.0	0.10000799999999999	0.99999
1625	0.0	0.0	0.10000799999999999	0.99999
1.75	0.899999999999999	0.0	0.99999	le-05
1875	0.899999999999999	ao	0.99999	le-05
2.0	0.1	10	le-05	0.99999