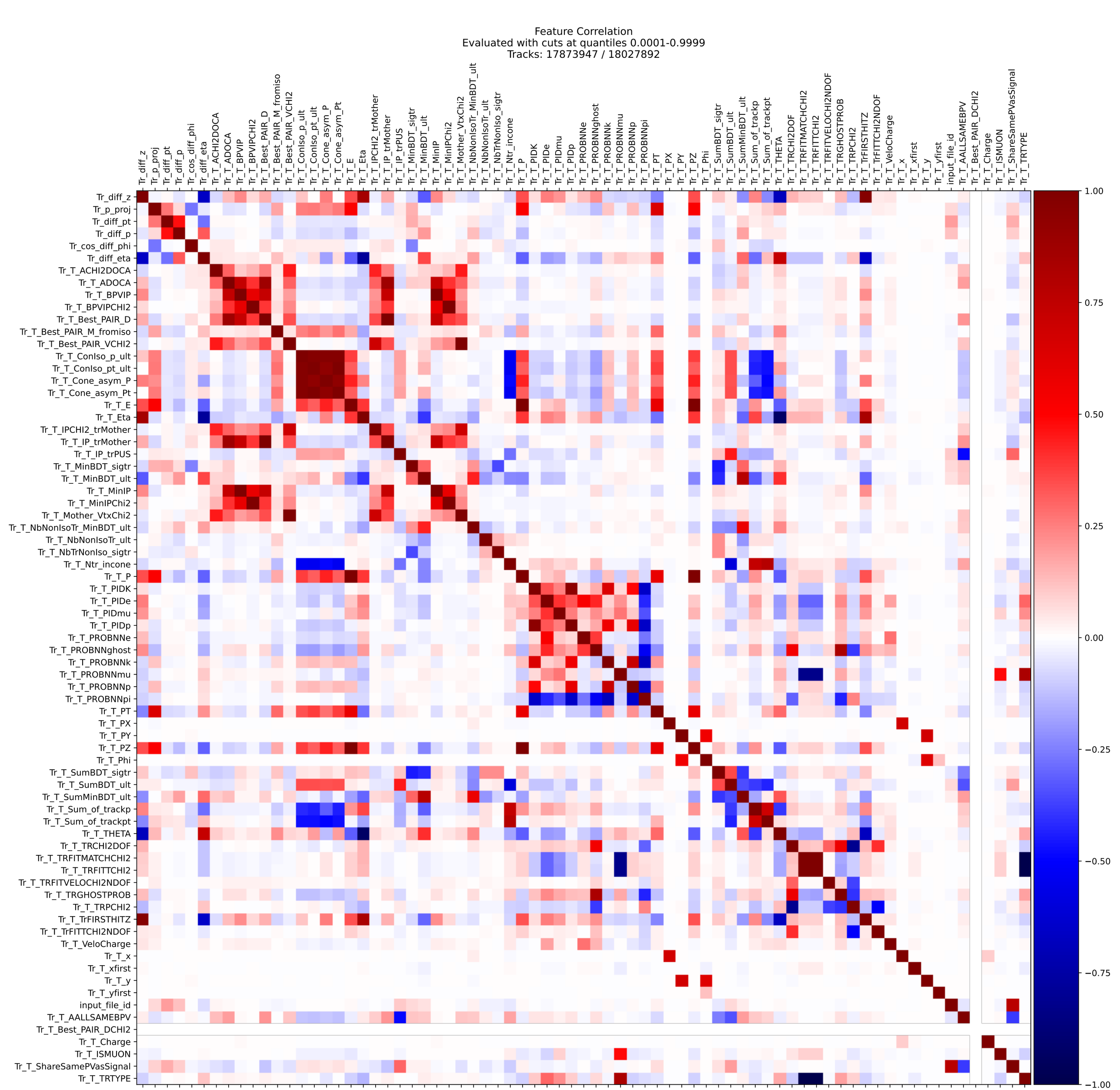
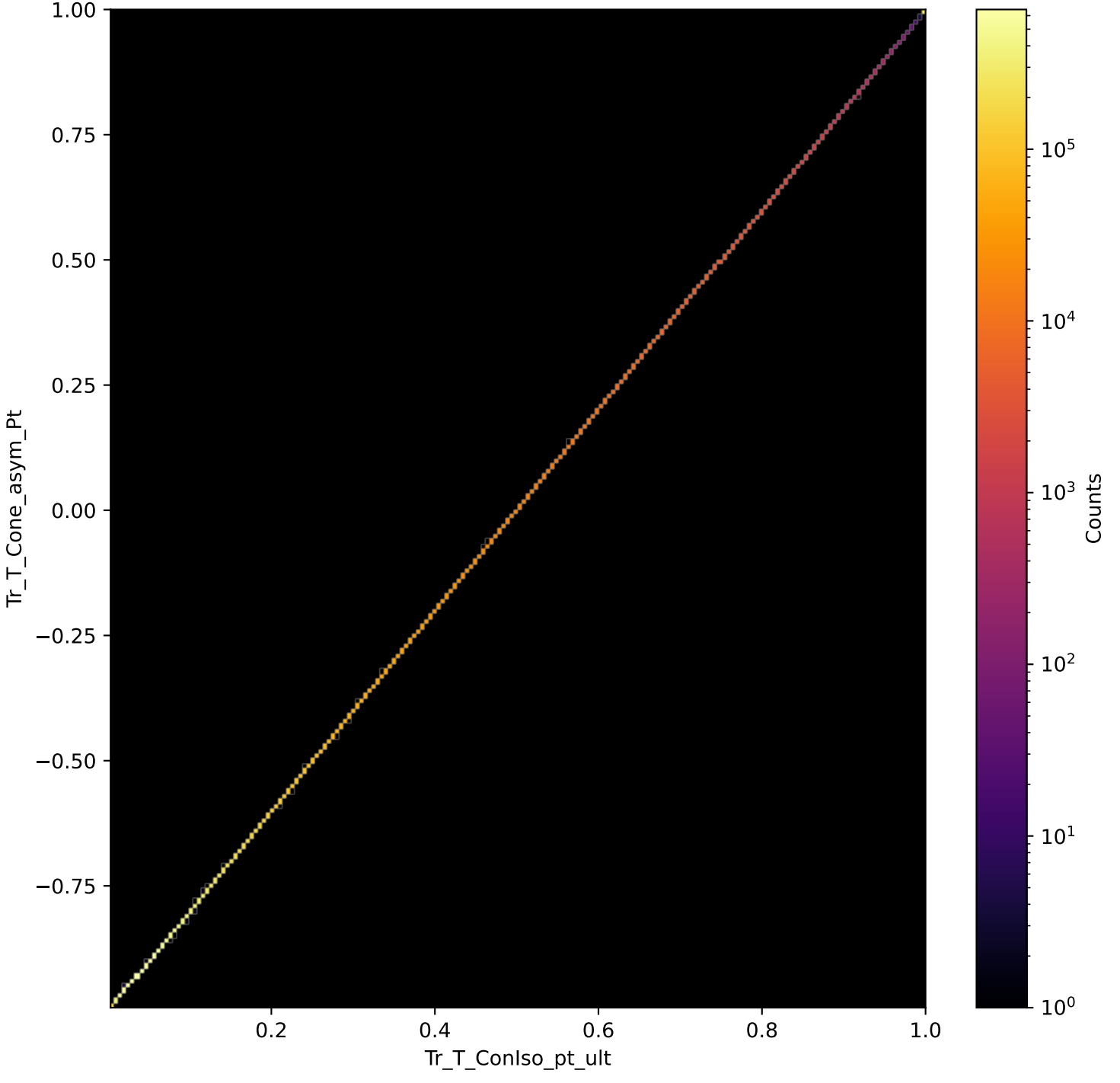
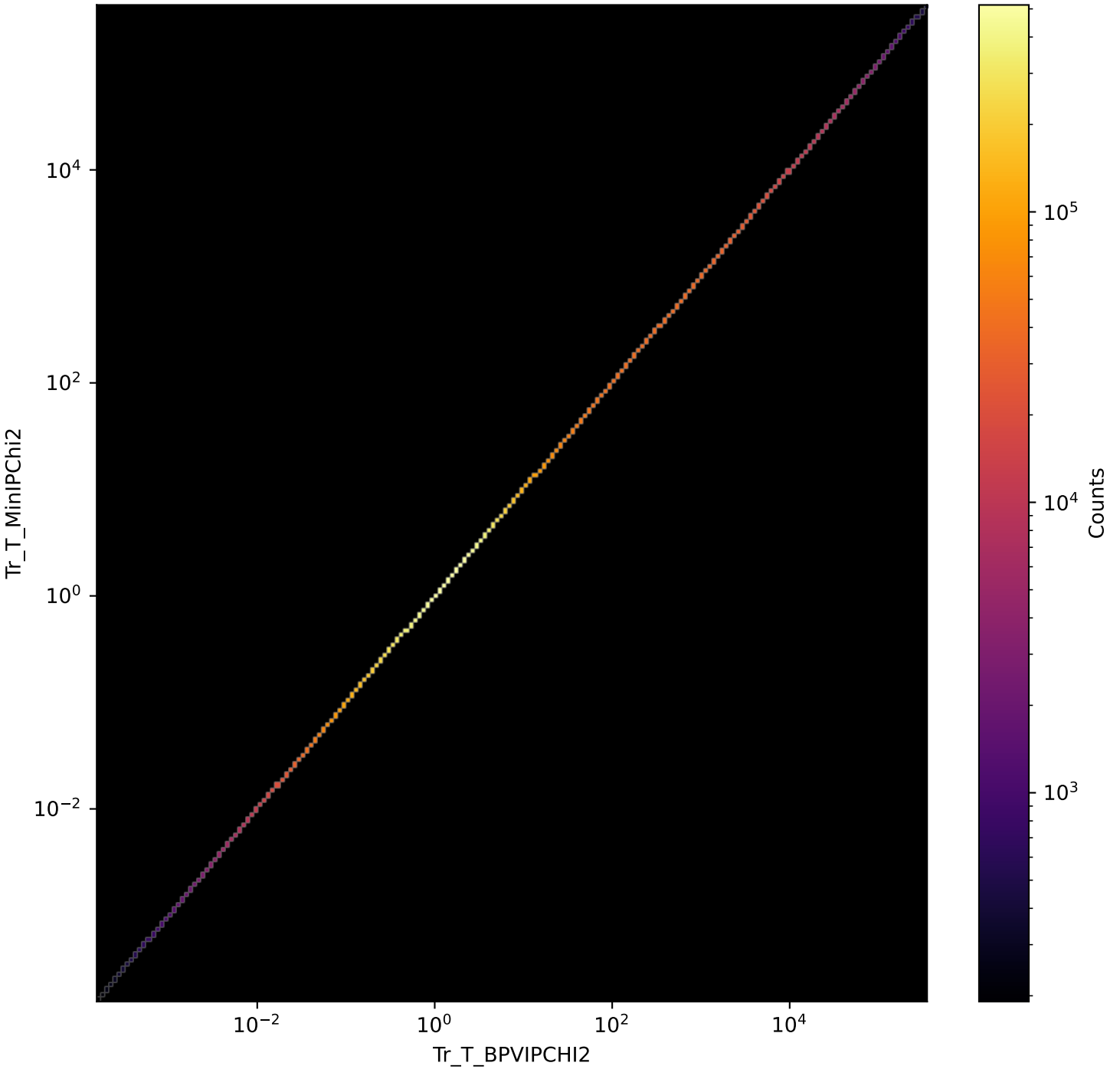
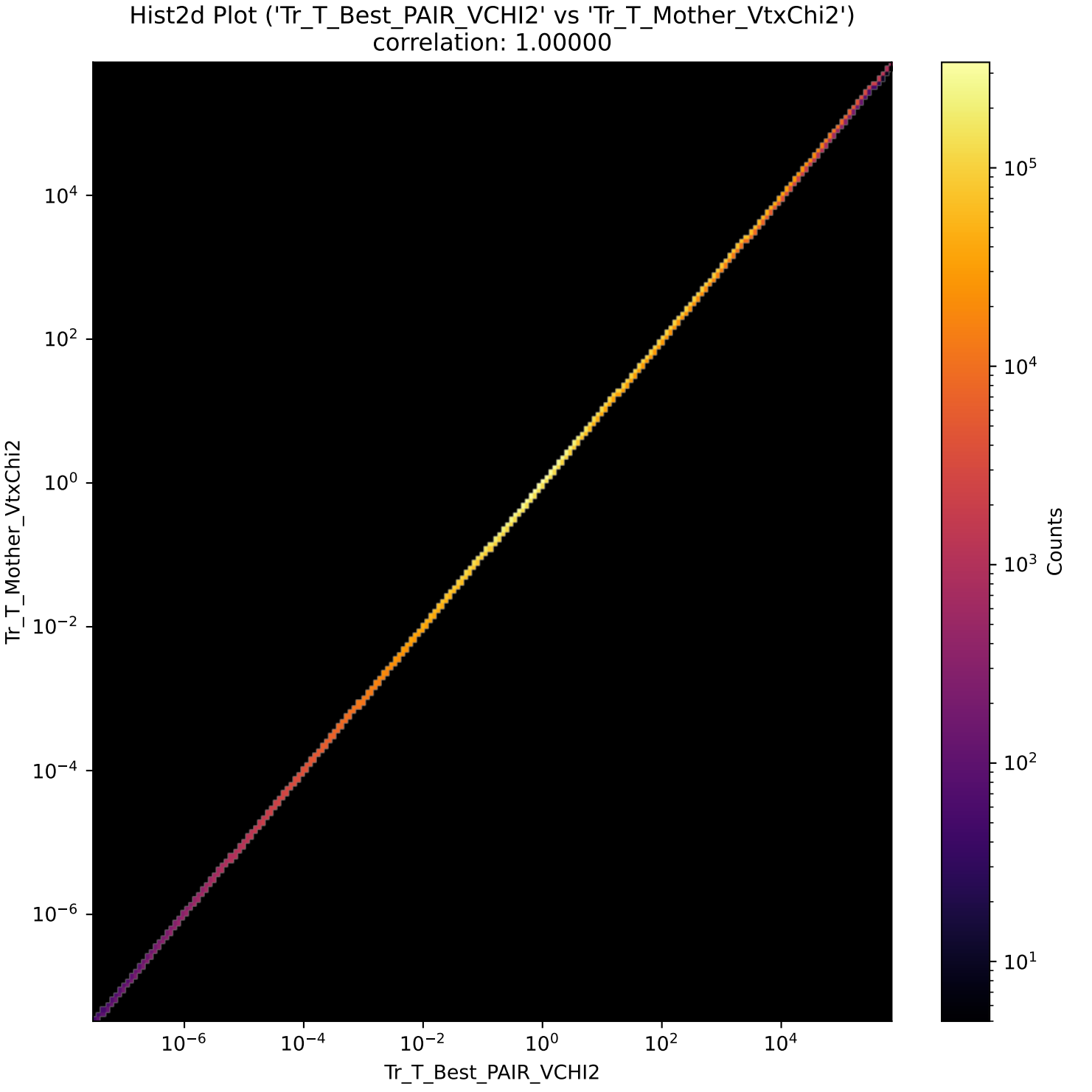
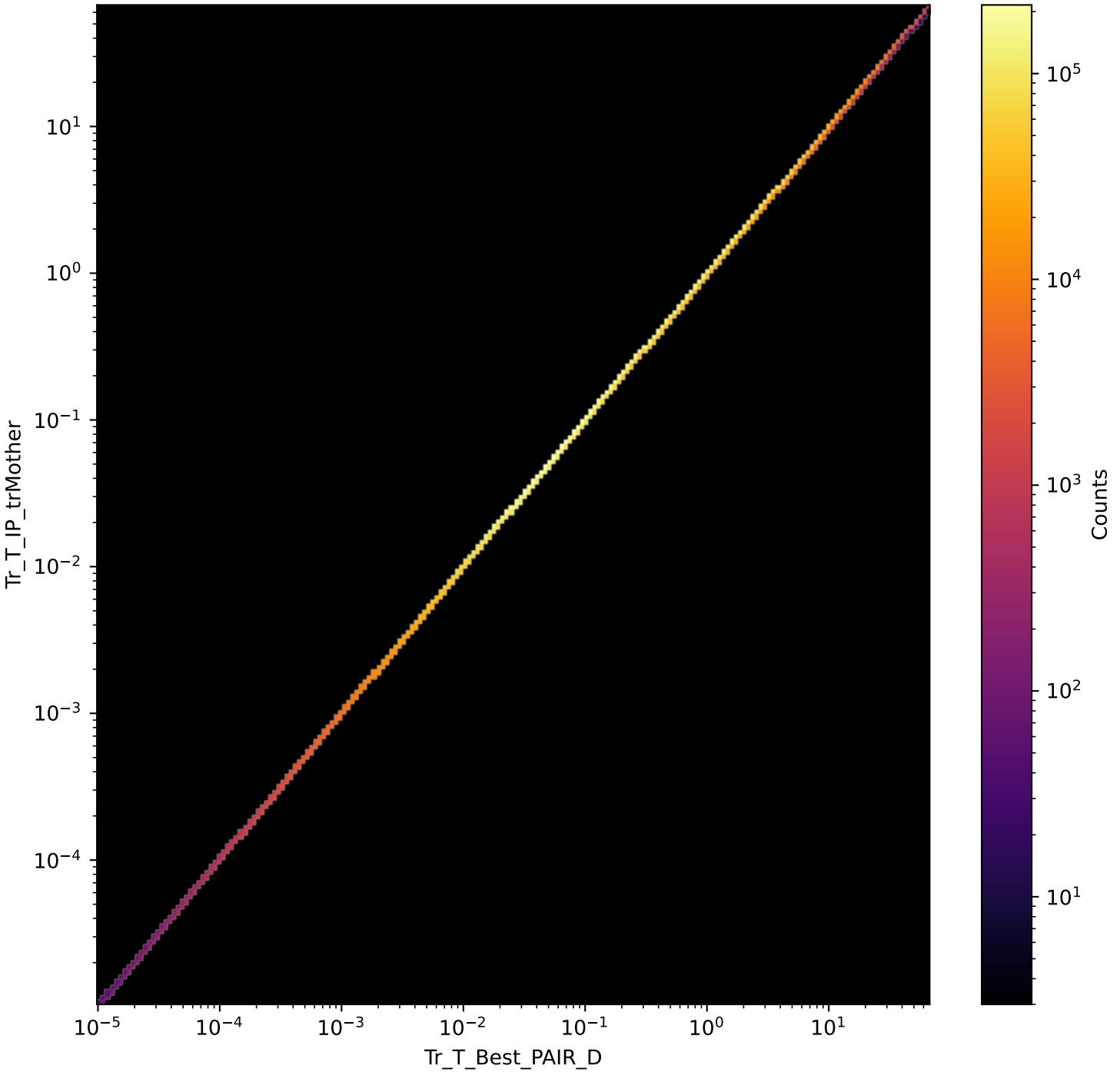
Feature Correlation
Evaluated with cuts at quantiles 0.0001-0.9999
Tracks: 17873947 / 18027892

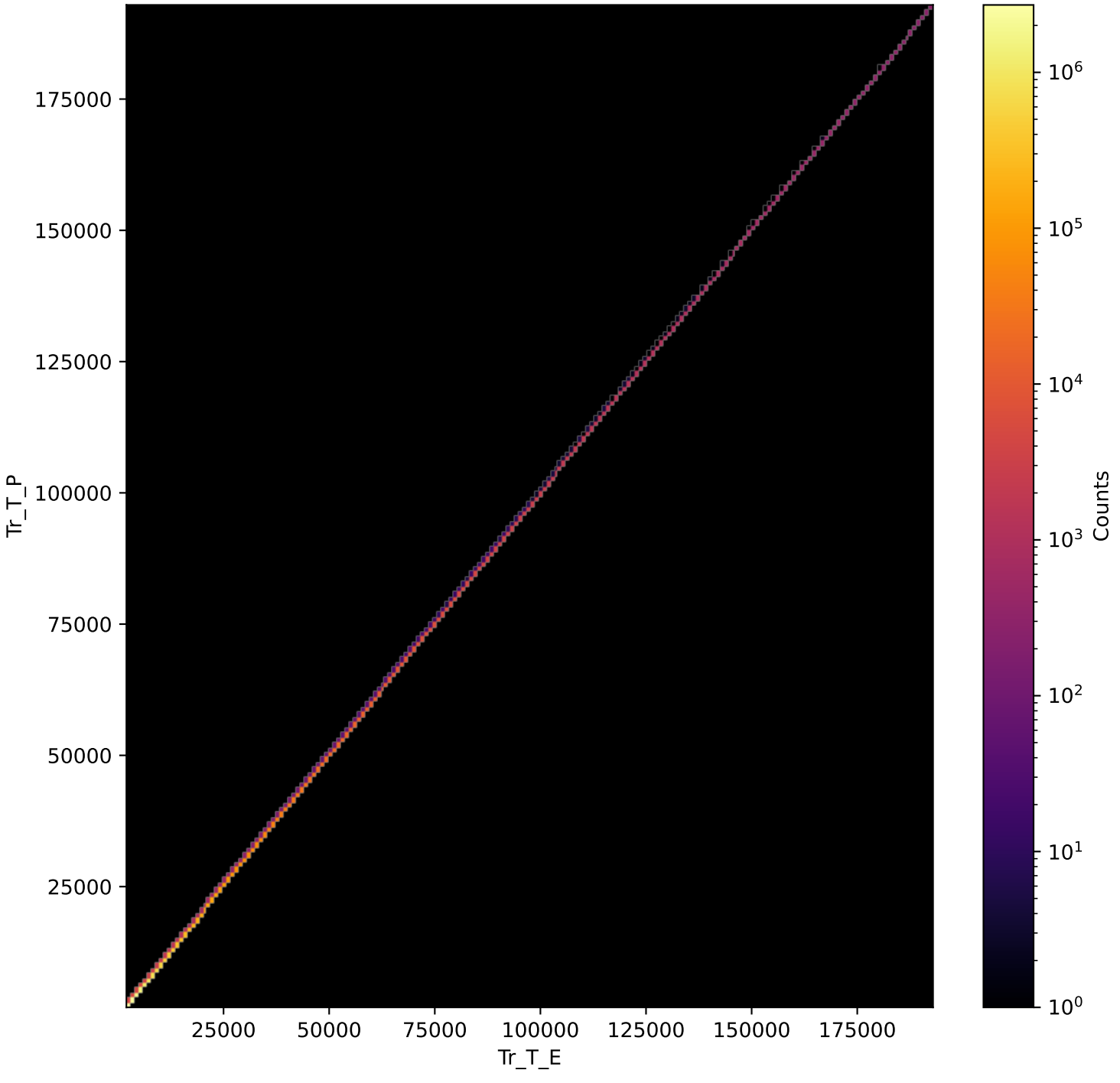


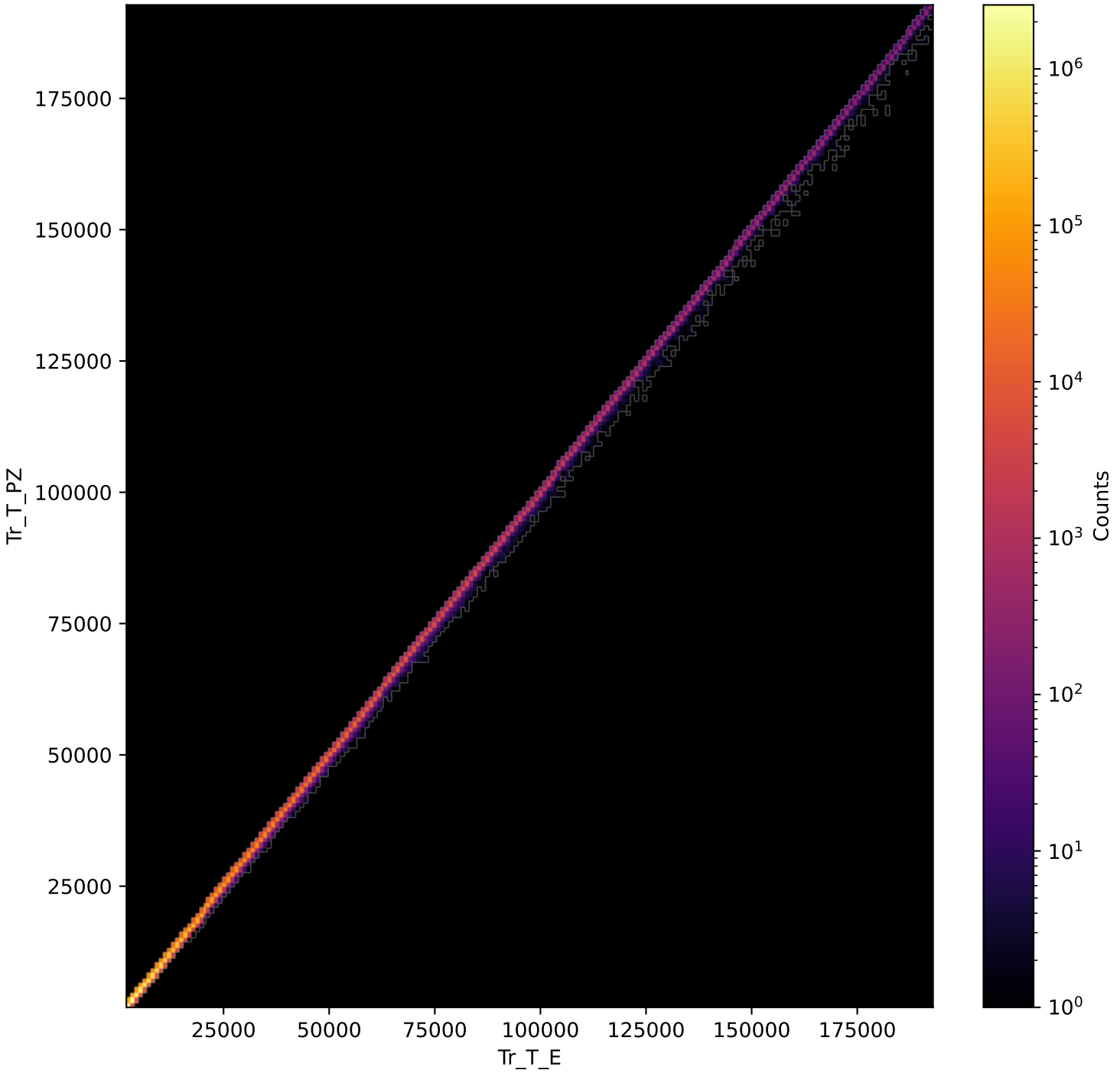

Hist2d Plot ('Tr_T_ConIso_pt_ult' vs 'Tr_T_Cone_asym_Pt')
correlation: 1.00000
1.00
0.75
0.50
0.25
0.00
−0.25
−0.50
−0.75
Tr_T_Cone_asym_Pt
0.2
0.4
0.6
0.8
1.0
Tr_T_ConIso_pt_ult
10^5
10^4
10^3
10^2
10^1
10^0
Counts

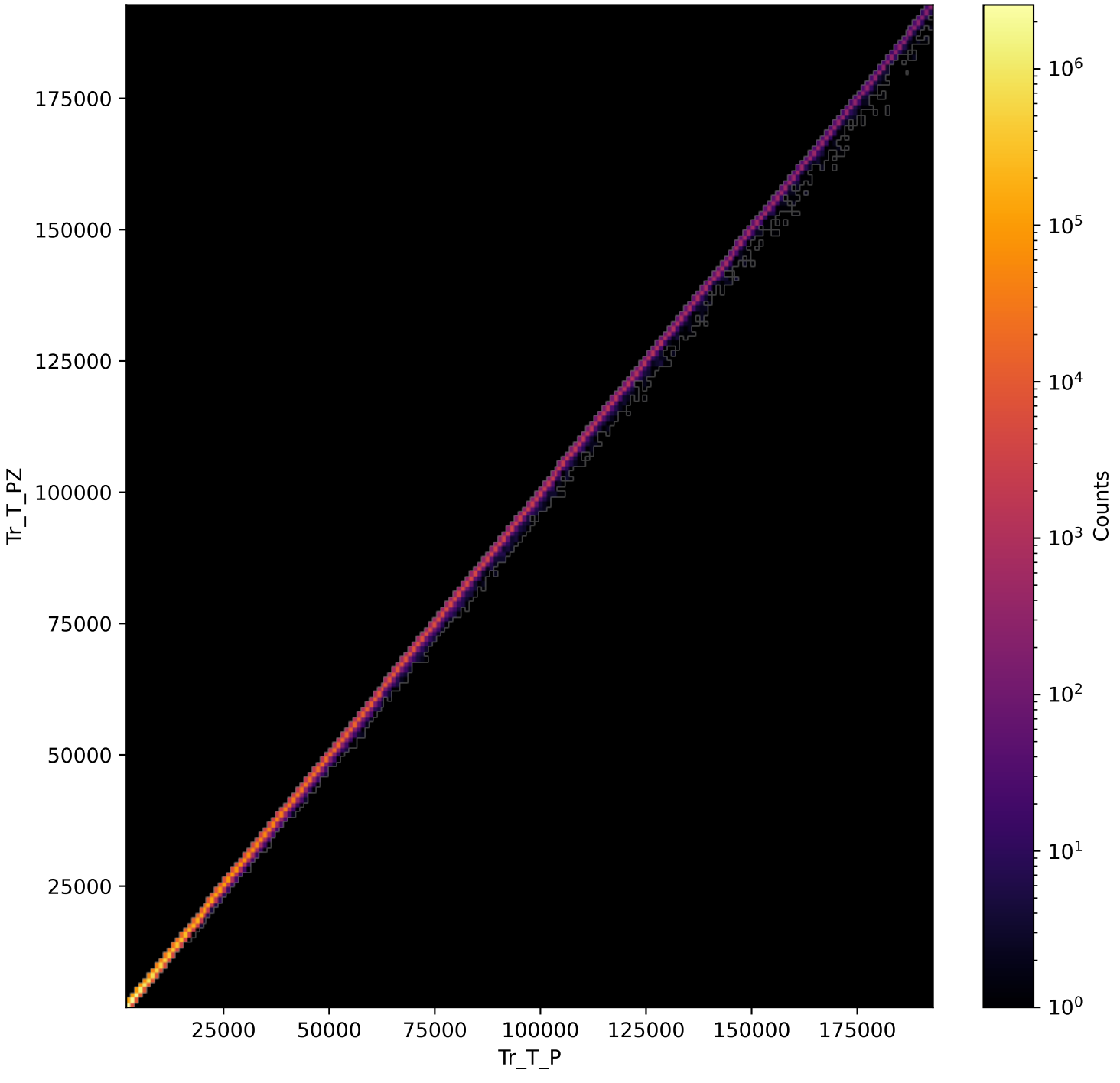

Hist2d Plot ('Tr_T_BPVIPCHI2' vs 'Tr_T_MinIPChi2')
correlation: 1.00000
Tr_T_MinIPChi2
Tr_T_BPVIPCHI2
Counts
10^{4}
10^{2}
10^{0}
10^{-2}
10^{-2}
10^{0}
10^{2}
10^{4}
10^{5}
10^{4}
10^{3}

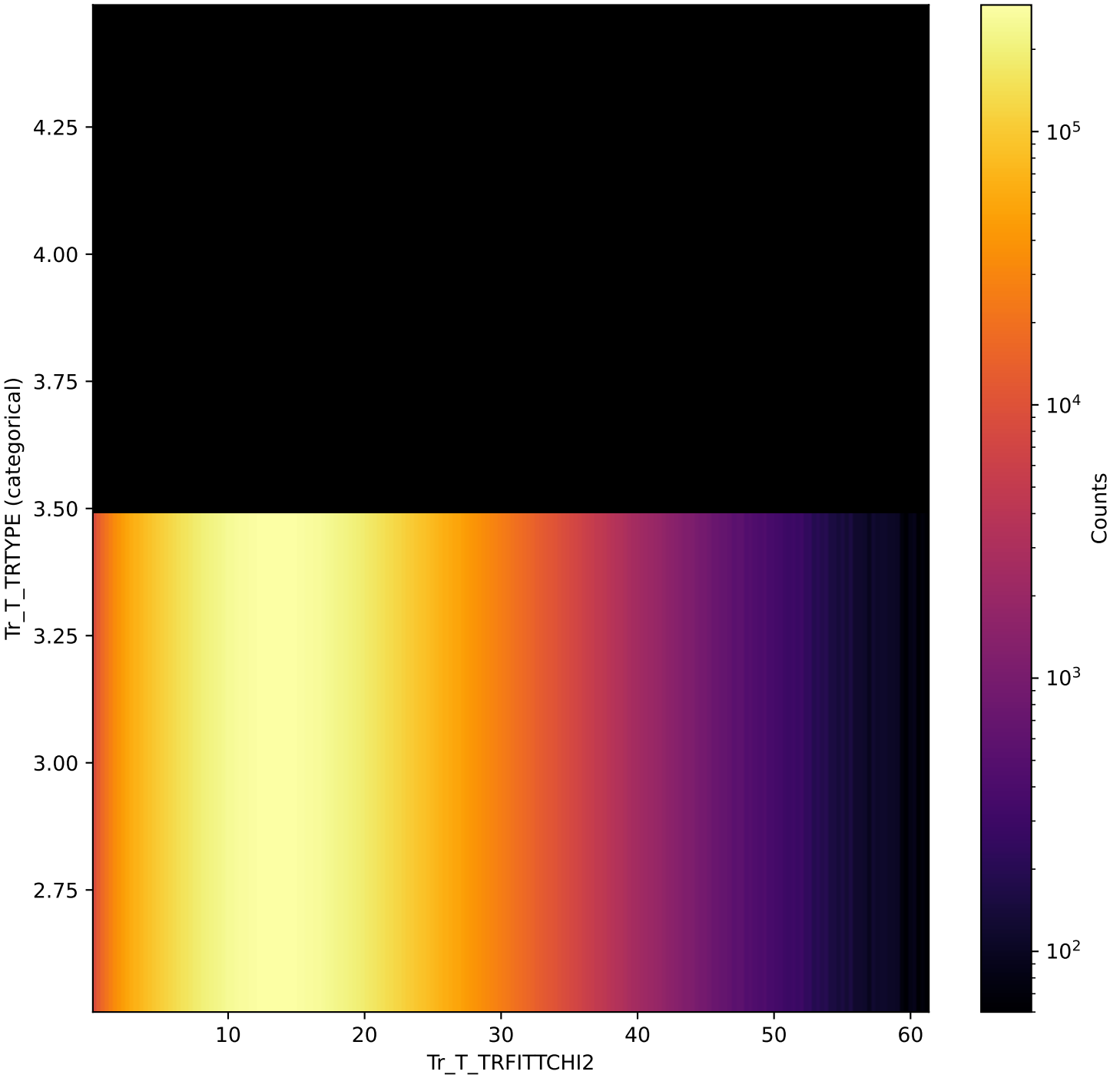

Hist2d Plot ('Tr_T_Best_PAIR_VCHI2' vs 'Tr_T_Mother_VtxChi2')
correlation: 1.00000
Tr_T_Mother_VtxChi2
Tr_T_Best_PAIR_VCHI2
Counts
10^{4}
10^{2}
10^{0}
10^{-2}
10^{-4}
10^{-6}
10^{5}
10^{3}
10^{1}

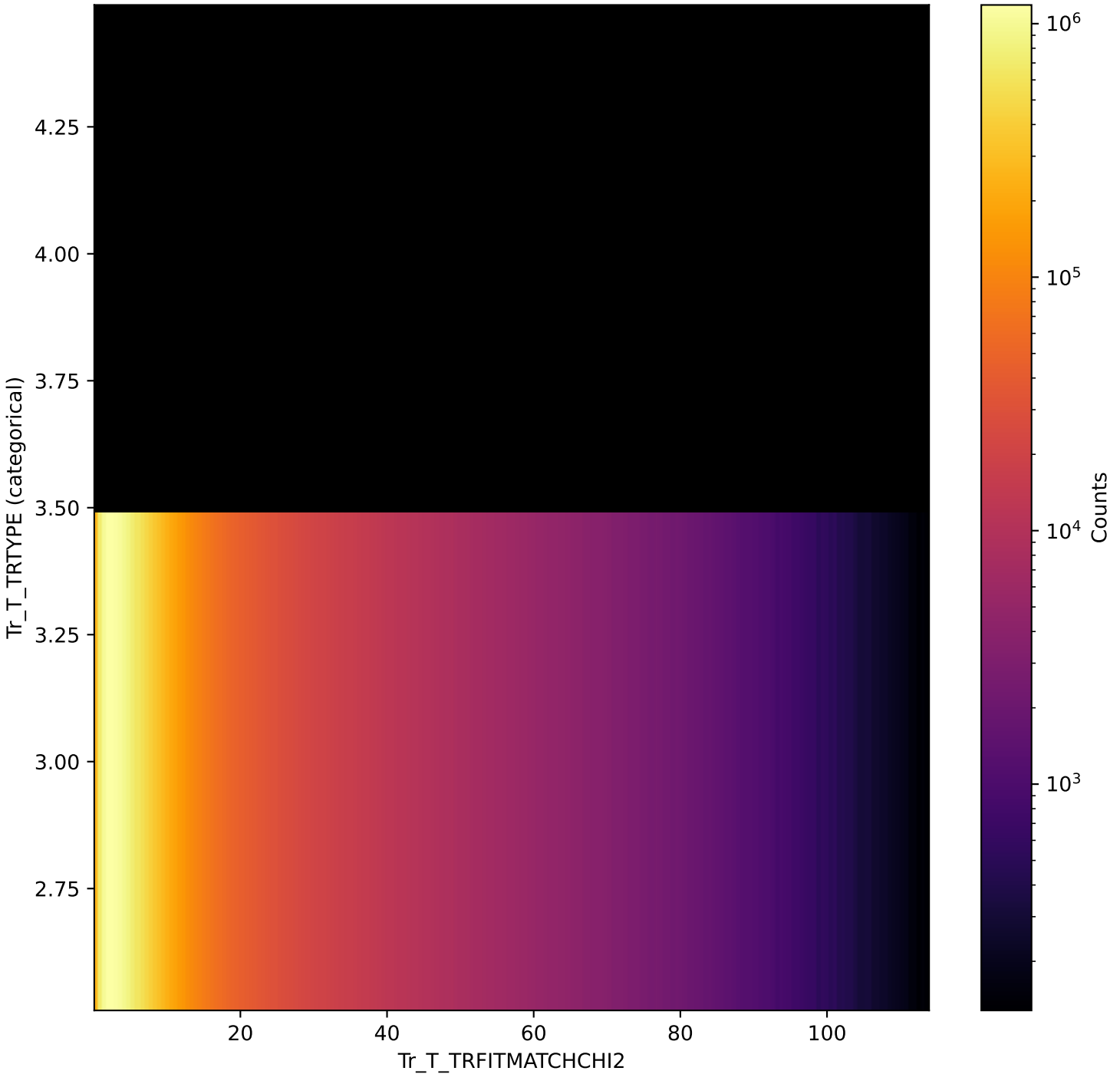

Hist2d Plot ('Tr_T_Best_PAIR_D' vs 'Tr_T_IP_trMother')
correlation: 1.00000
Tr_T_IP_trMother
Tr_T_Best_PAIR_D
Counts
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
10^{5}
10^{4}
10^{3}
10^{2}

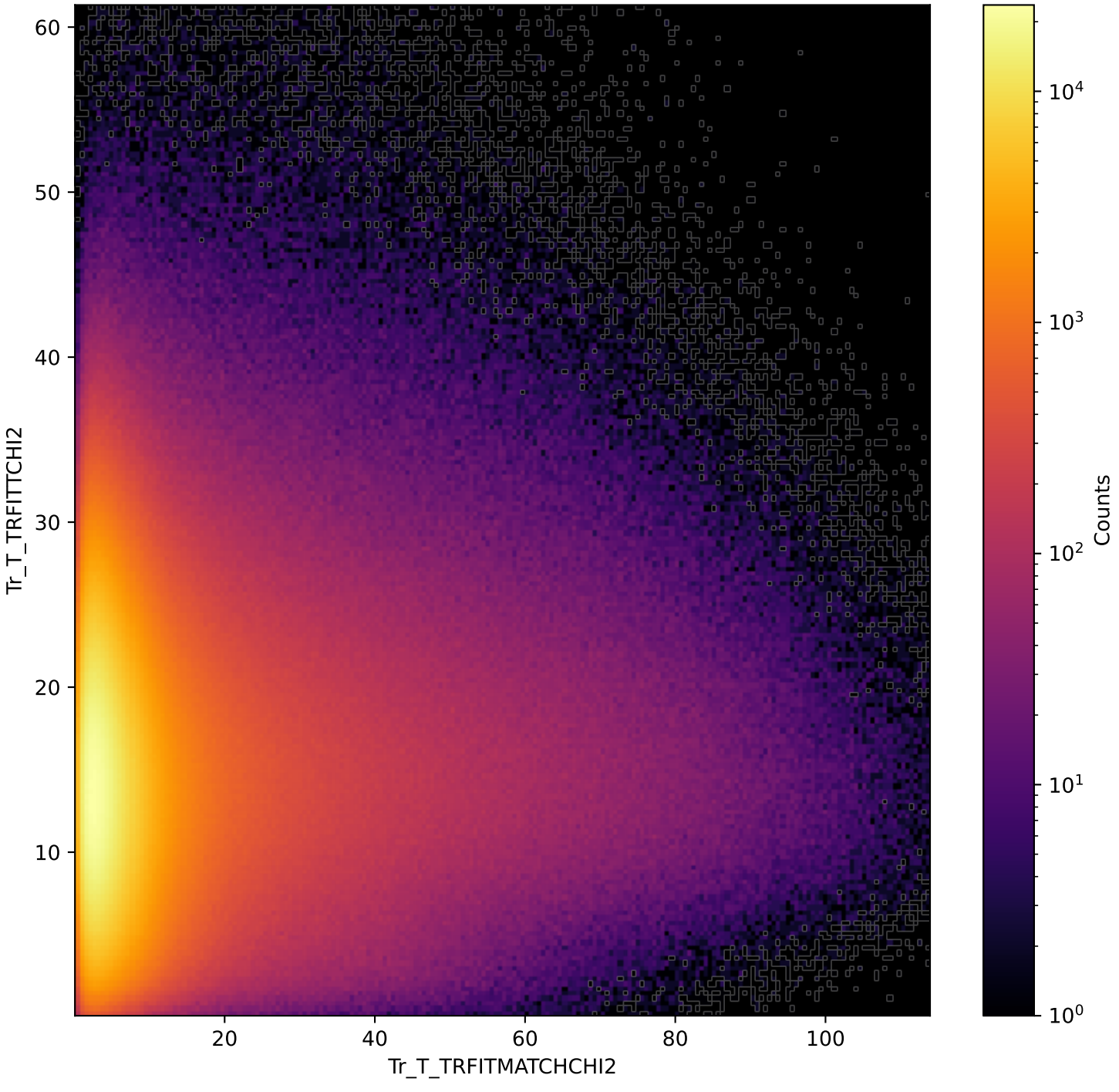

Hist2d Plot ('Tr_T_E' vs 'Tr_T_P')
correlation: 1.00000
Tr_T_P
175000
150000
125000
100000
75000
50000
25000
Tr_T_E
25000
50000
75000
100000
125000
150000
175000
Counts
10^6
10^5
10^4
10^3
10^2
10^1
10^0

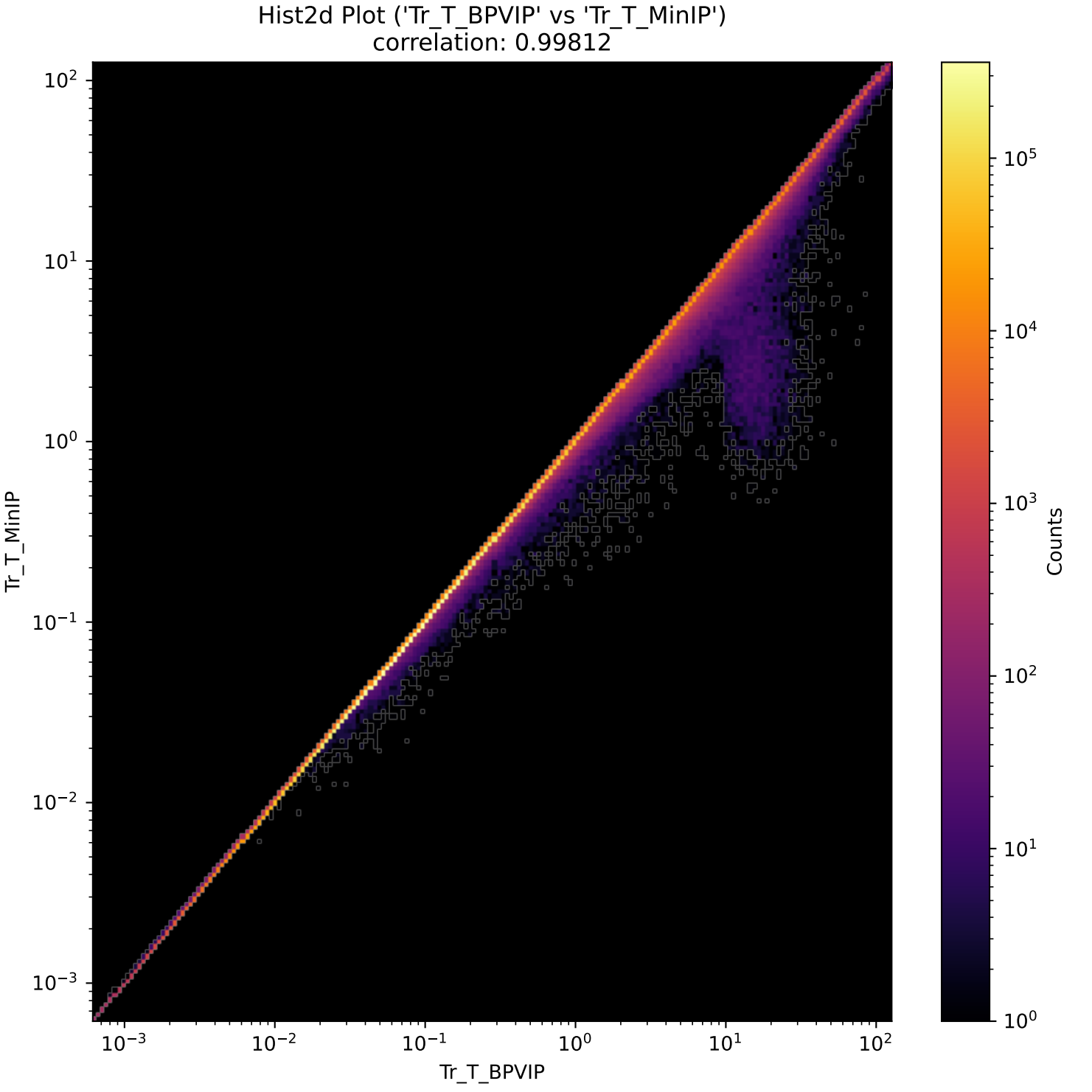

Hist2d Plot ('Tr_T_E' vs 'Tr_T_PZ')
correlation: 0.99999
Tr_T_PZ
175000
150000
125000
100000
75000
50000
25000
Tr_T_E
25000
50000
75000
100000
125000
150000
175000
Counts
10^6
10^5
10^4
10^3
10^2
10^1
10^0

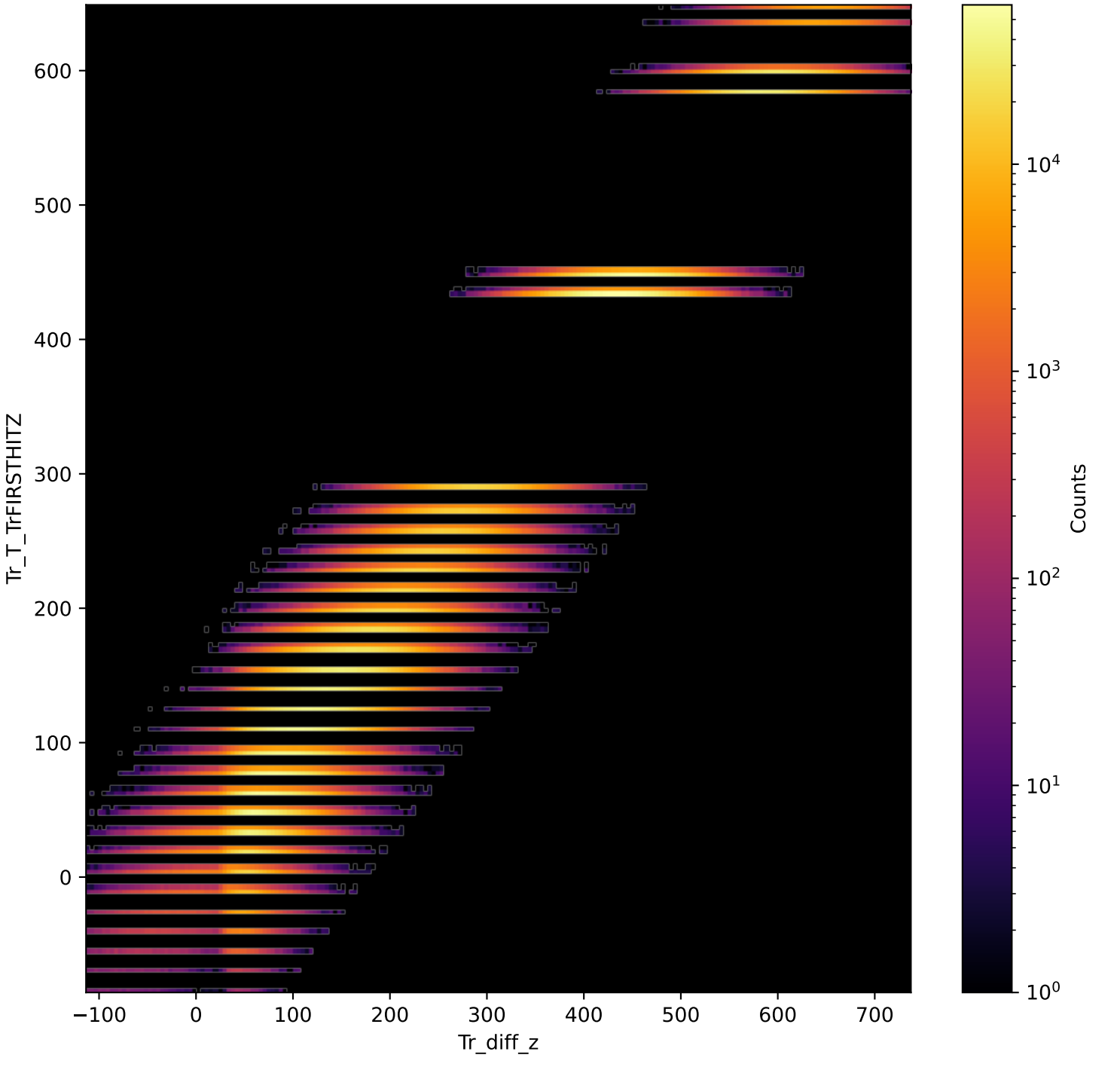

Hist2d Plot ('Tr_T_P' vs 'Tr_T_PZ')
correlation: 0.99999
Tr_T_PZ
175000
150000
125000
100000
75000
50000
25000
Tr_T_P
25000
50000
75000
100000
125000
150000
175000
Counts
10^6
10^5
10^4
10^3
10^2
10^1
10^0

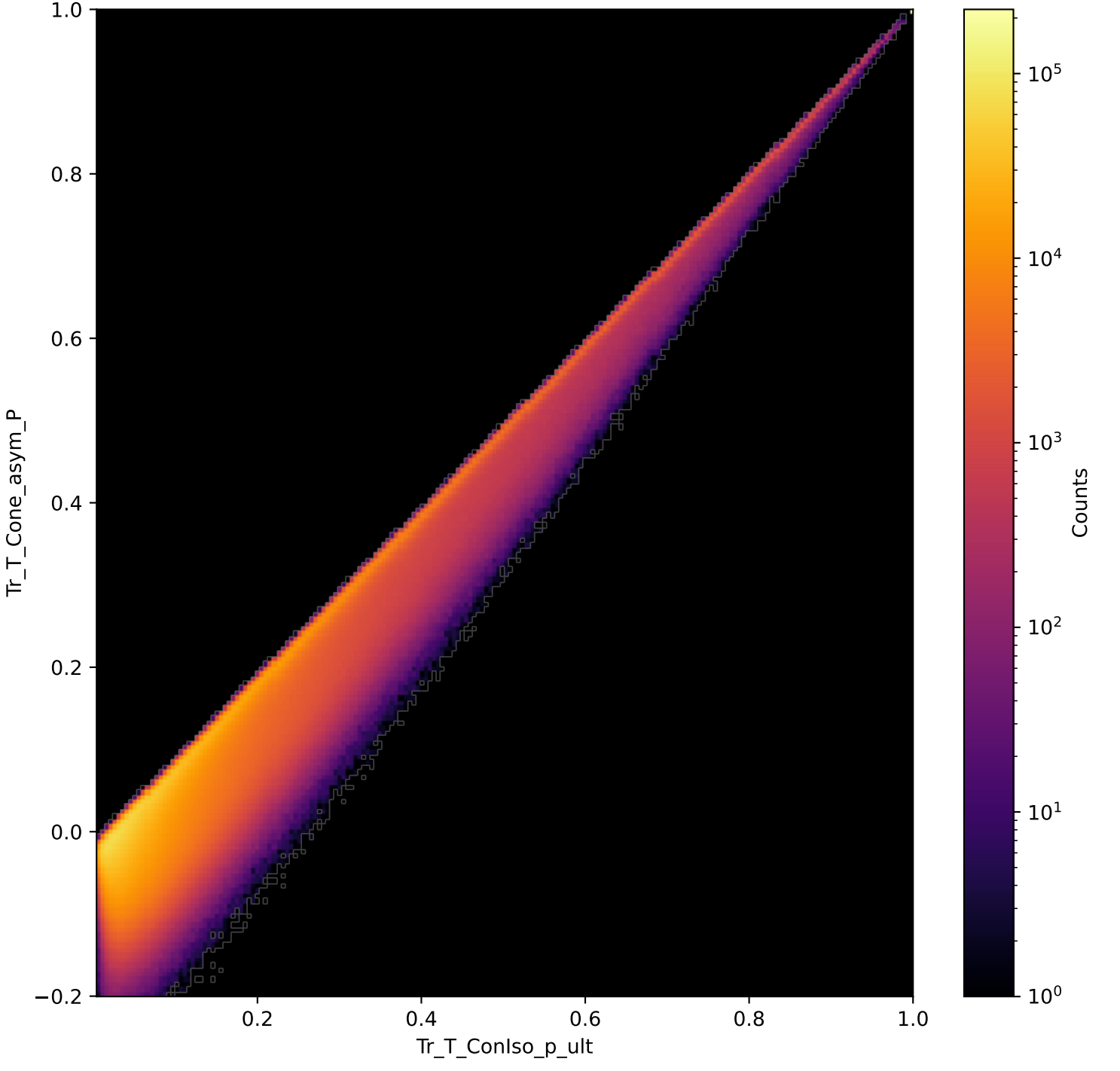

Hist2d Plot ('Tr_T_TRFITTCHI2' vs 'Tr_T_TRTYPE')
correlation: -0.99986
Tr_T_TRTYPE (categorical)
4.25
4.00
3.75
3.50
3.25
3.00
2.75
10
20
30
40
50
60
Tr_T_TRFITTCHI2
10^5
10^4
10^3
10^2
Counts

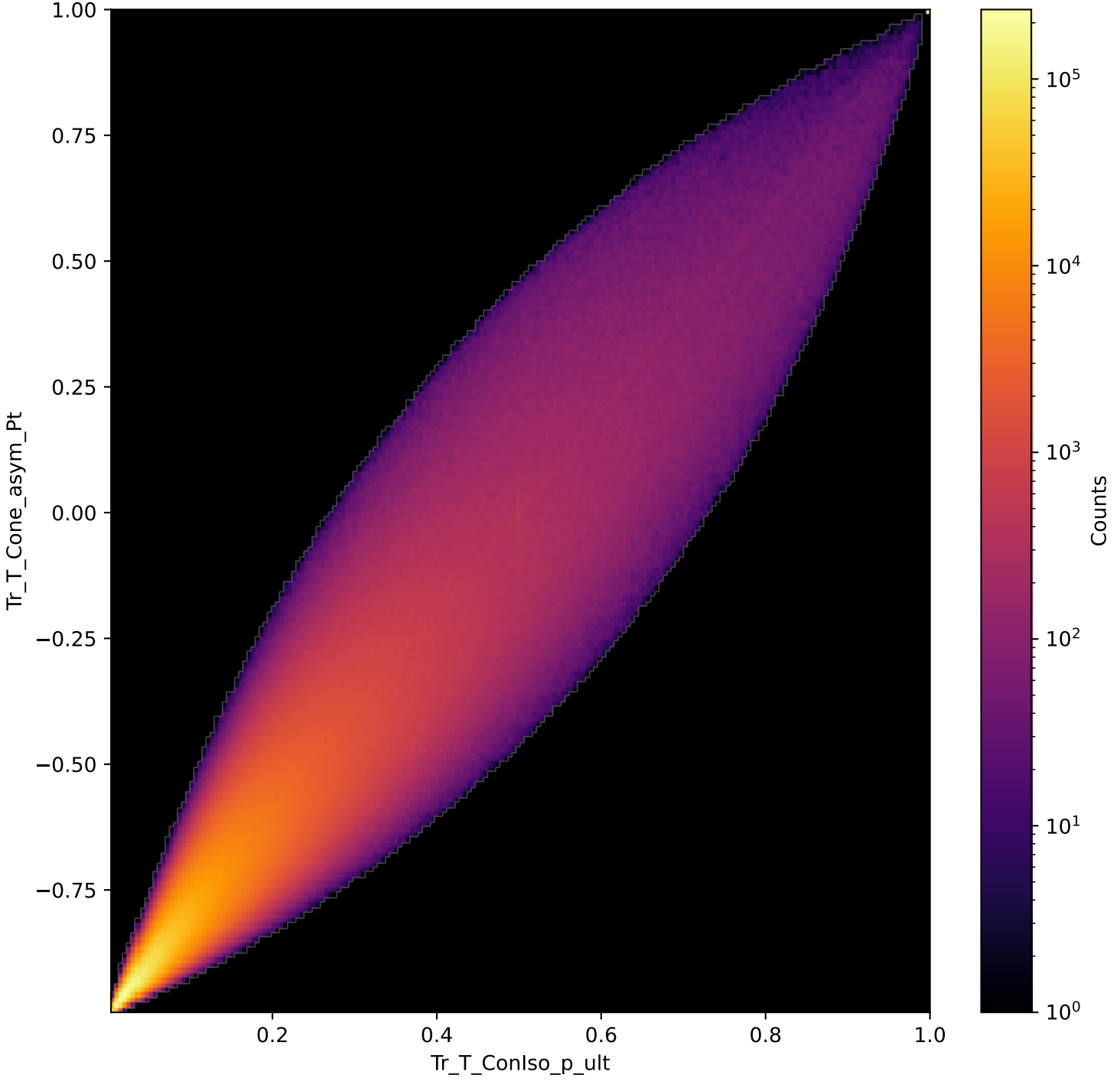

Hist2d Plot ('Tr_T_TRFITMATCHCHI2' vs 'Tr_T_TRTYPE')
correlation: -0.99959
Tr_T_TRTYPE (categorical)
4.25
4.00
3.75
3.50
3.25
3.00
2.75
20
40
60
80
100
Tr_T_TRFITMATCHCHI2
10^6
10^5
10^4
10^3
Counts

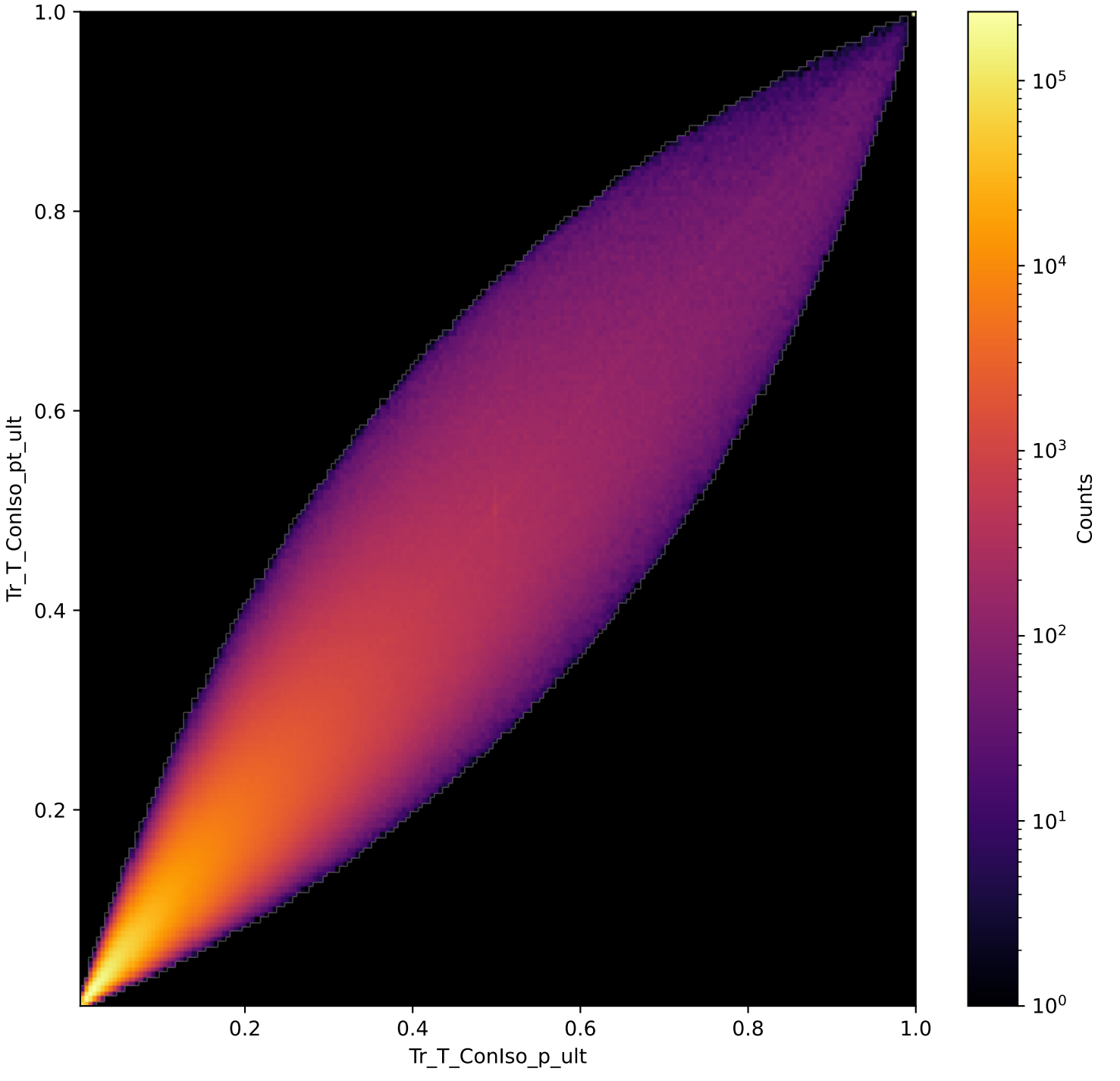

Hist2d Plot ('Tr_T_TRFITMATCHCHI2' vs 'Tr_T_TRFITTCHI2')
correlation: 0.99948
Tr_T_TRFITTCHI2
Tr_T_TRFITMATCHCHI2
Counts
60
50
40
30
20
10
20
40
60
80
100
10^4
10^3
10^2
10^1
10^0

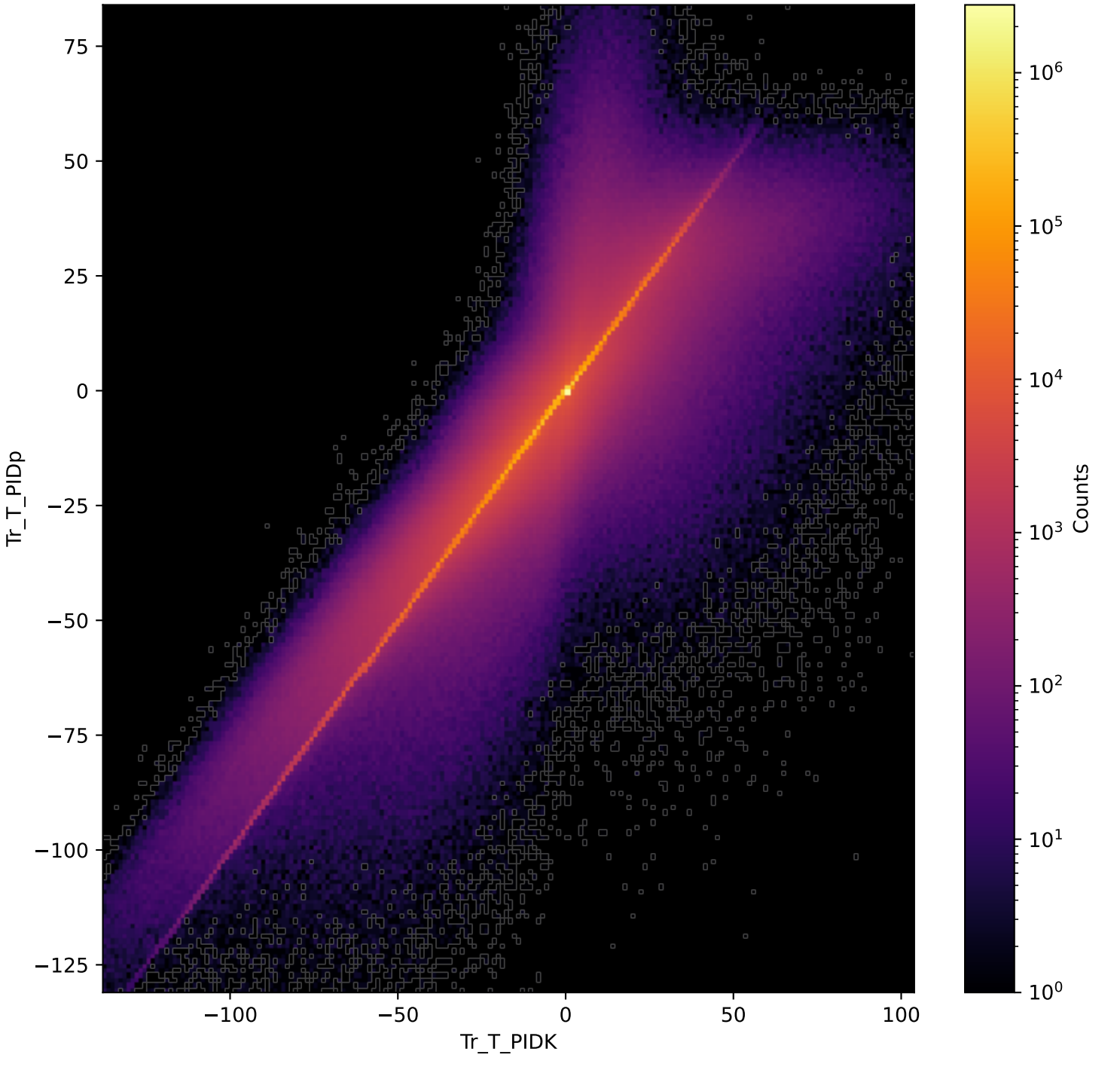

Hist2d Plot ('Tr_T_BPVIP' vs 'Tr_T_MinIP')
correlation: 0.99812
Tr_T_MinIP
Tr_T_BPVIP
Counts
10^{2}
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{5}
10^{4}
10^{3}
10^{2}
10^{1}
10^{0}

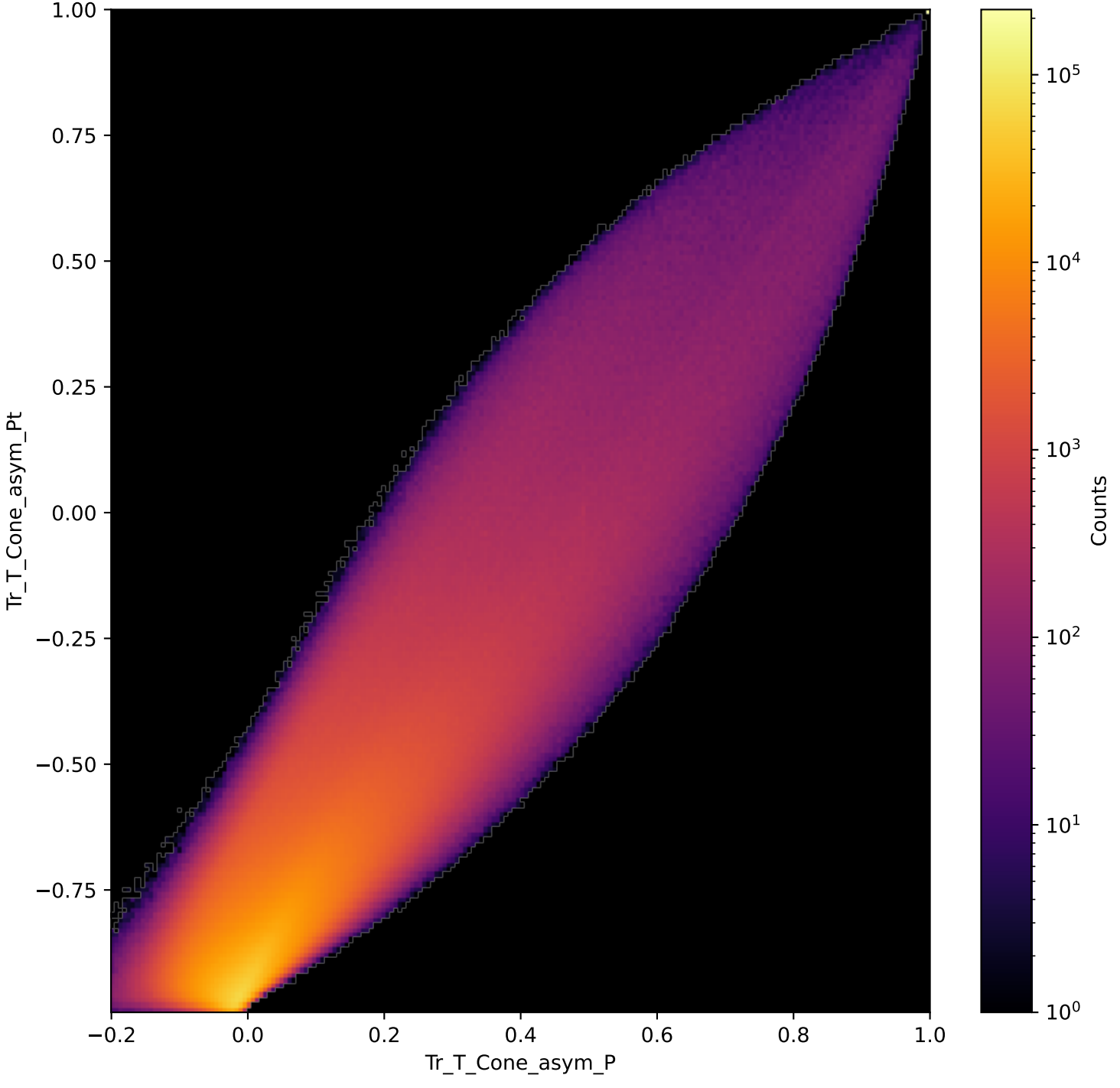

Hist2d Plot ('Tr_diff_z' vs 'Tr_T_TrFIRSTHITZ')
correlation: 0.97592
Tr_T_TrFIRSTHITZ
Tr_diff_z
Counts
600
500
400
300
200
100
0
−100
0
100
200
300
400
500
600
700
10^4
10^3
10^2
10^1
10^0

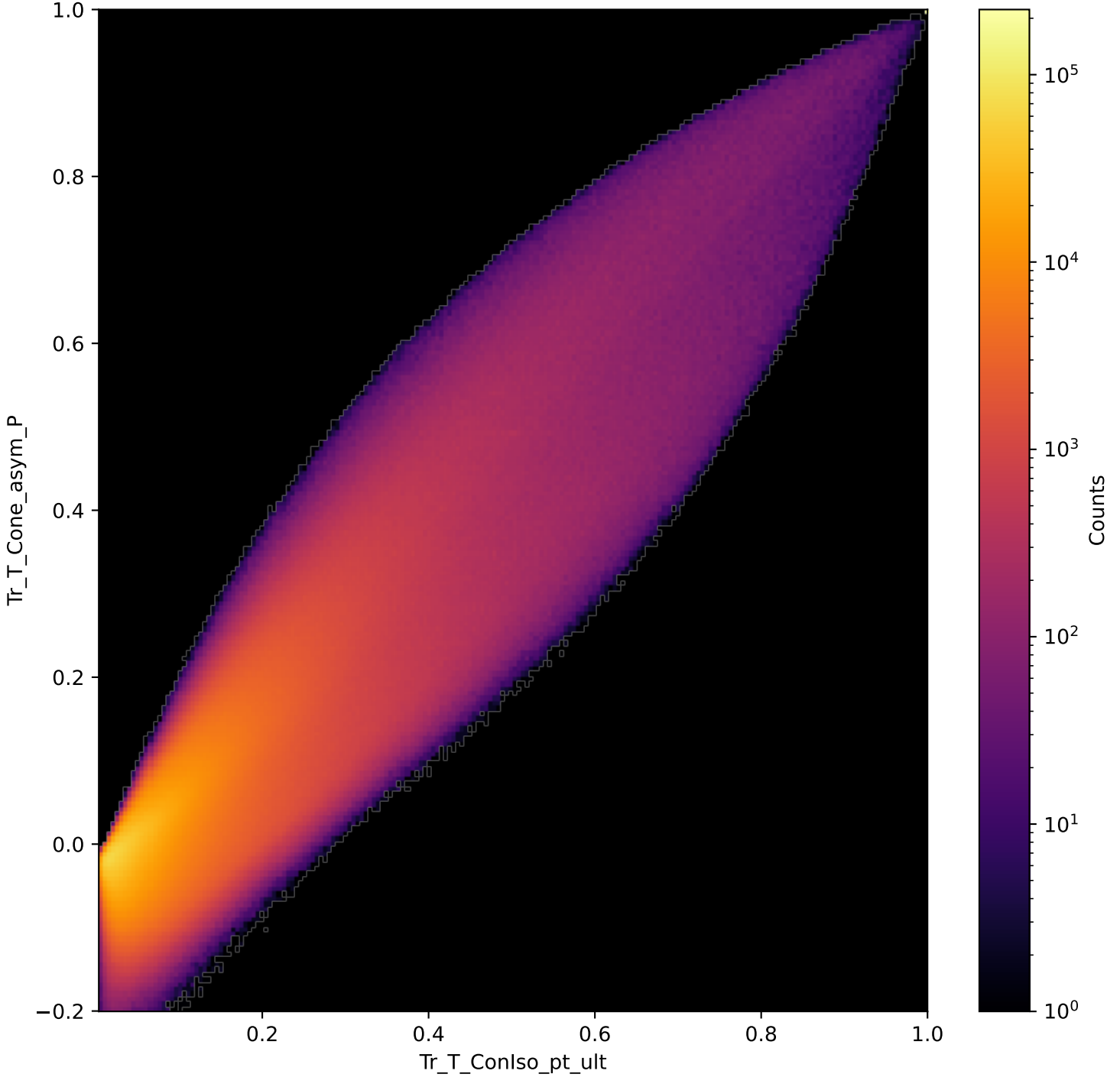

Hist2d Plot ('Tr_T_ConIso_p_ult' vs 'Tr_T_Cone_asym_P')
correlation: 0.97537
Tr_T_Cone_asym_P
Tr_T_ConIso_p_ult
Counts
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
0.2
0.4
0.6
0.8
1.0
10^5
10^4
10^3
10^2
10^1
10^0

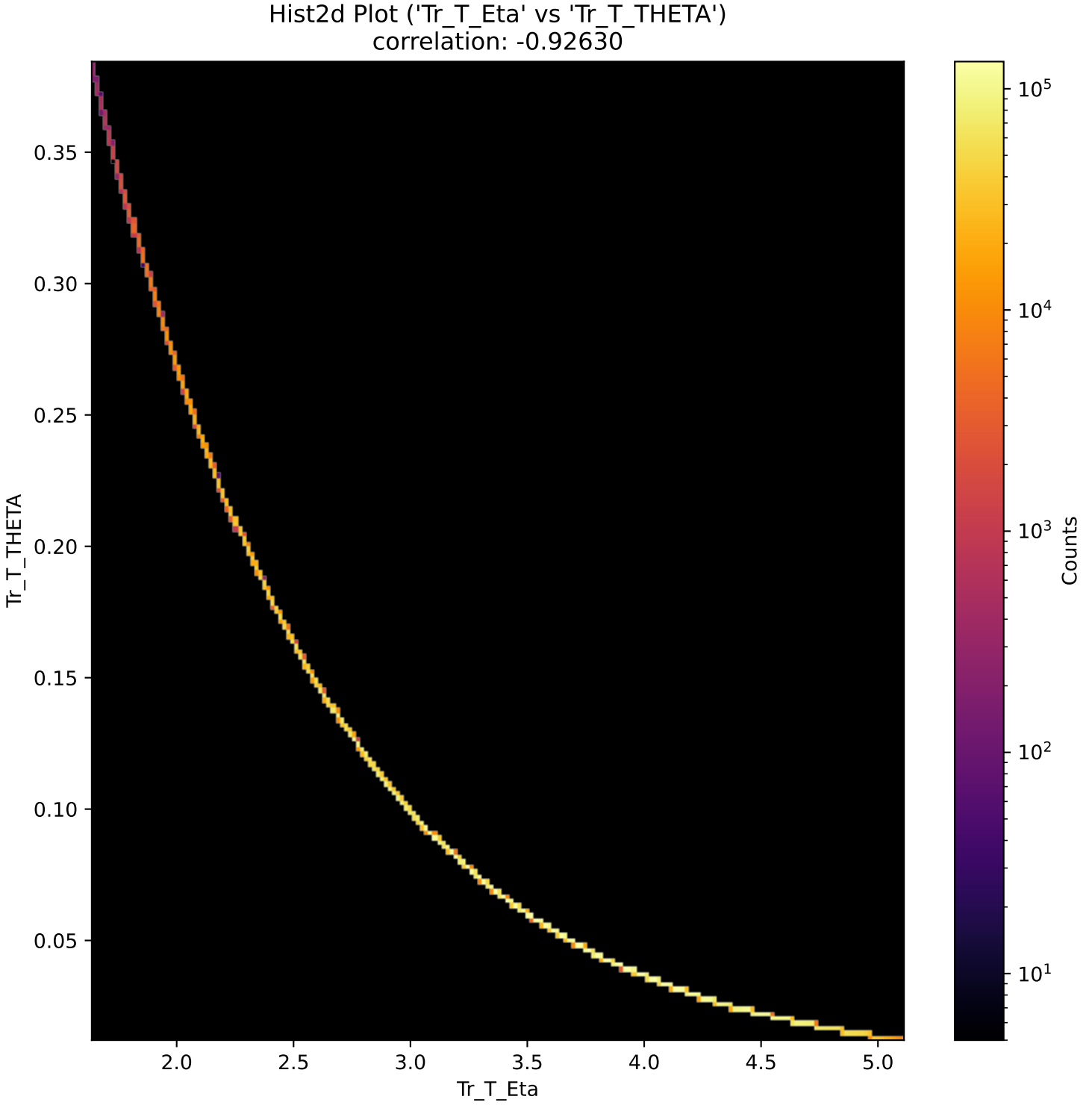

Hist2d Plot ('Tr_T_ConIso_p_ult' vs 'Tr_T_Cone_asym_Pt')
correlation: 0.97053
Tr_T_Cone_asym_Pt
Tr_T_ConIso_p_ult
Counts
1.00
0.75
0.50
0.25
0.00
−0.25
−0.50
−0.75
0.2
0.4
0.6
0.8
1.0
10^5
10^4
10^3
10^2
10^1
10^0

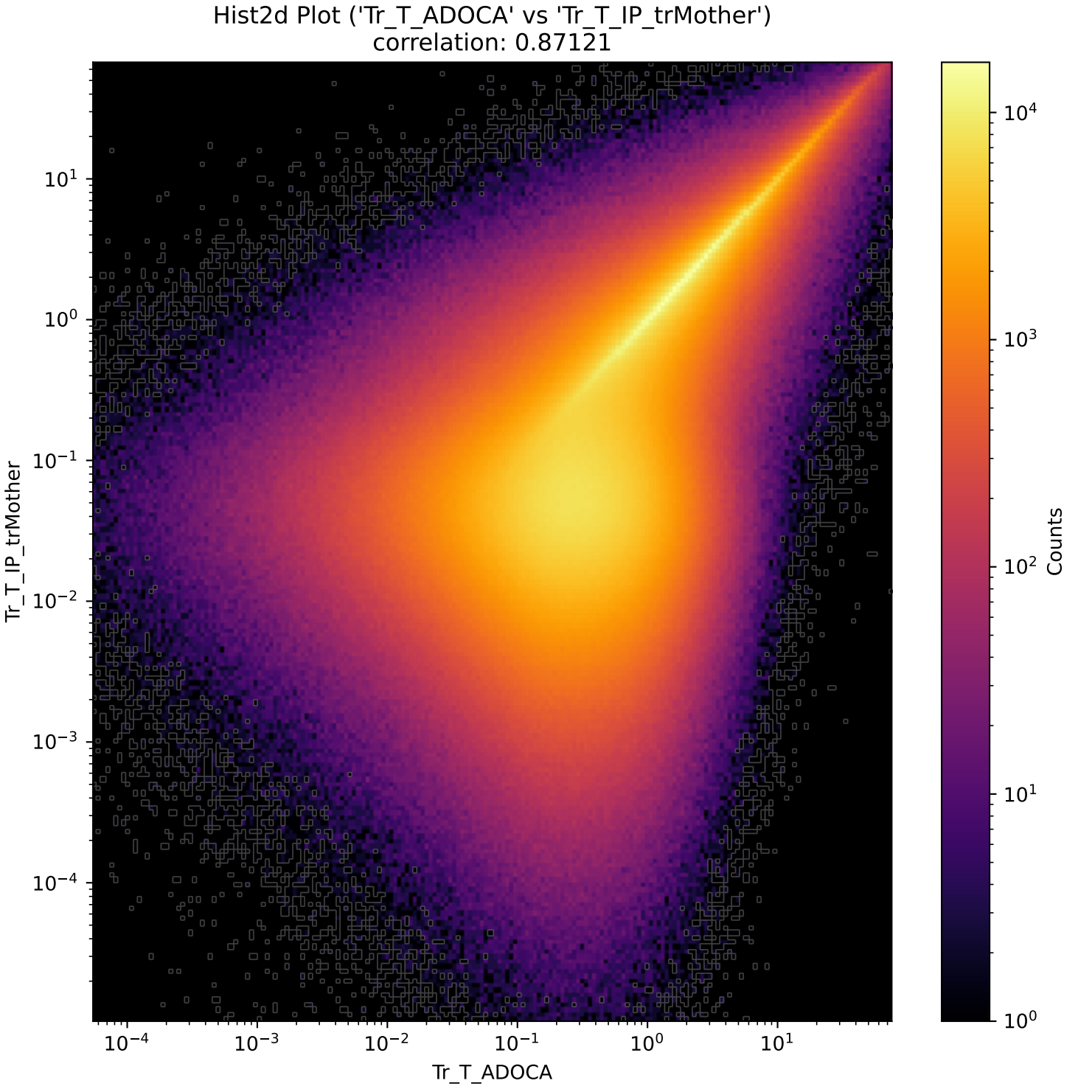

Hist2d Plot ('Tr_T_ConIso_p_ult' vs 'Tr_T_ConIso_pt_ult')
correlation: 0.97053
Tr_T_ConIso_pt_ult
Tr_T_ConIso_p_ult
Counts
1.0
0.8
0.6
0.4
0.2
0.2
0.4
0.6
0.8
1.0
10^5
10^4
10^3
10^2
10^1
10^0

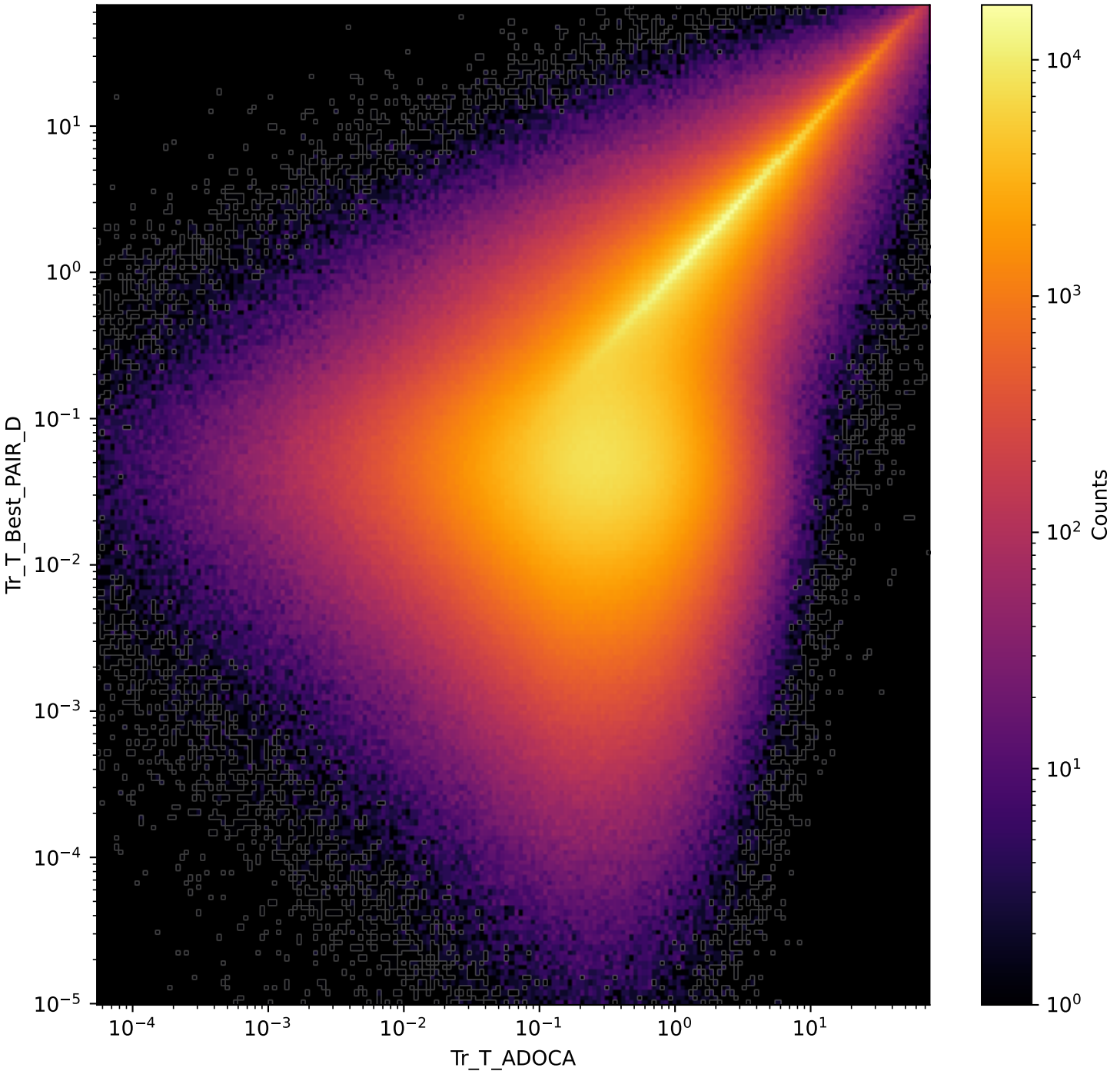

Hist2d Plot ('Tr_T_PIDK' vs 'Tr_T_PIDp')
correlation: 0.94100
Tr_T_PIDp
Tr_T_PIDK
Counts
75
50
25
0
−25
−50
−75
−100
−125
−100
−50
0
50
100
10^6
10^5
10^4
10^3
10^2
10^1
10^0

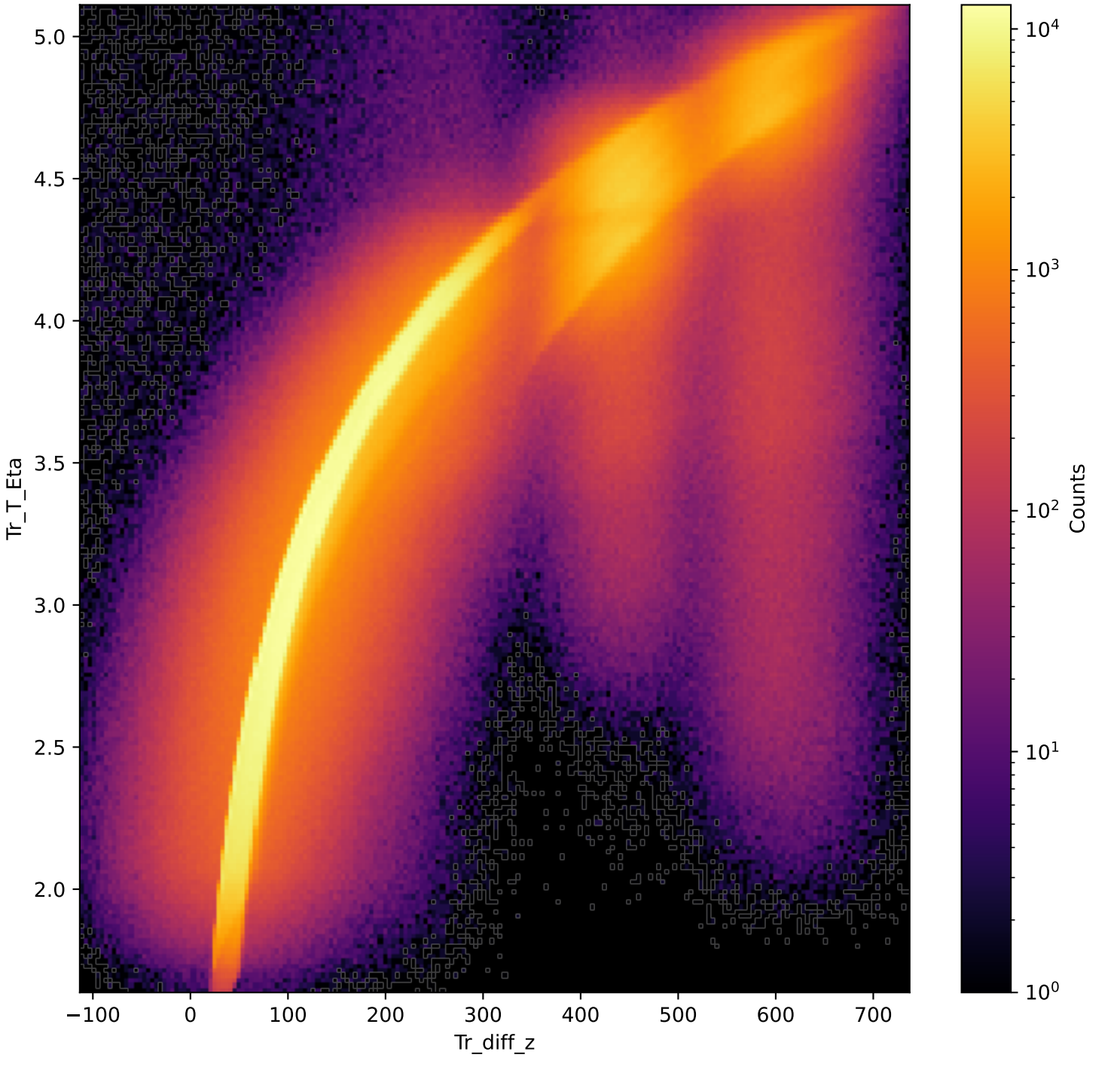

Hist2d Plot ('Tr_T_Cone_asym_P' vs 'Tr_T_Cone_asym_Pt')
correlation: 0.93427
Tr_T_Cone_asym_Pt
Tr_T_Cone_asym_P
Counts
1.00
0.75
0.50
0.25
0.00
−0.25
−0.50
−0.75
−0.2
0.0
0.2
0.4
0.6
0.8
1.0
10^5
10^4
10^3
10^2
10^1
10^0

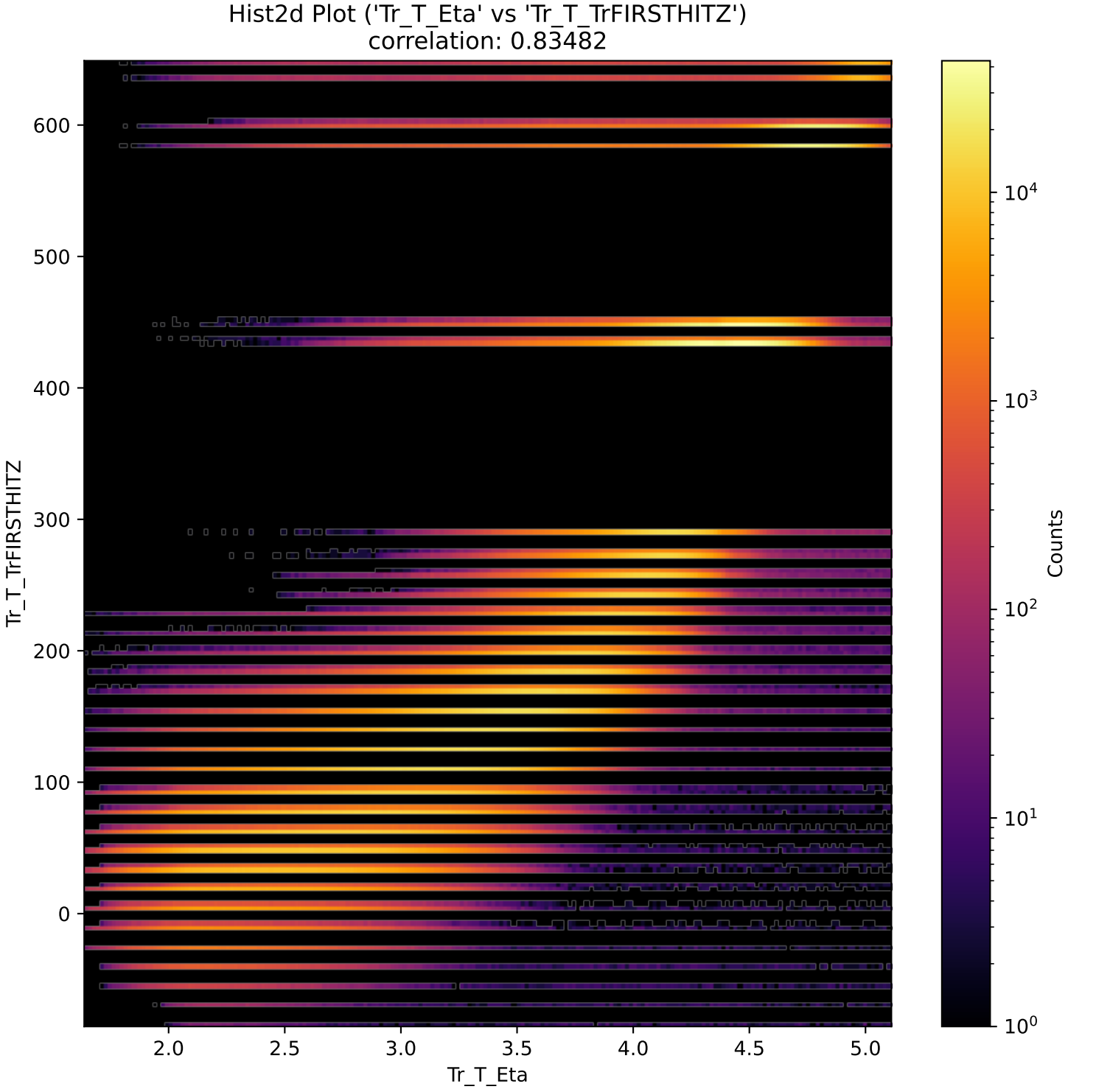

Hist2d Plot ('Tr_T_ConIso_pt_ult' vs 'Tr_T_Cone_asym_P')
correlation: 0.93427
Tr_T_Cone_asym_P
Tr_T_ConIso_pt_ult
Counts
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
0.2
0.4
0.6
0.8
1.0
10^5
10^4
10^3
10^2
10^1
10^0

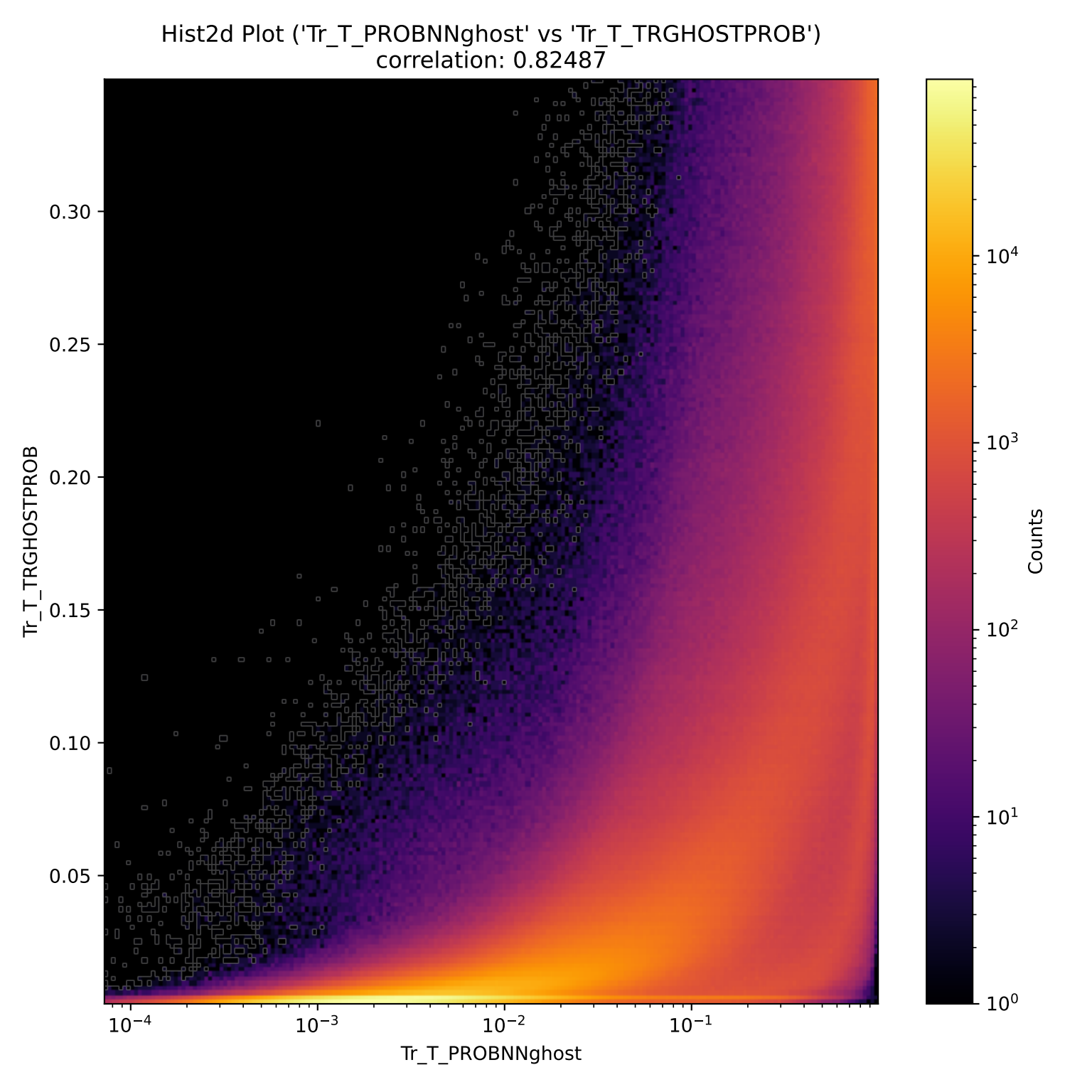

Hist2d Plot ('Tr_T_Eta' vs 'Tr_T_THETA')
correlation: -0.92630
Tr_T_THETA
0.35
0.30
0.25
0.20
0.15
0.10
0.05
2.0
2.5
3.0
3.5
4.0
4.5
5.0
Tr_T_Eta
Counts
10^5
10^4
10^3
10^2
10^1

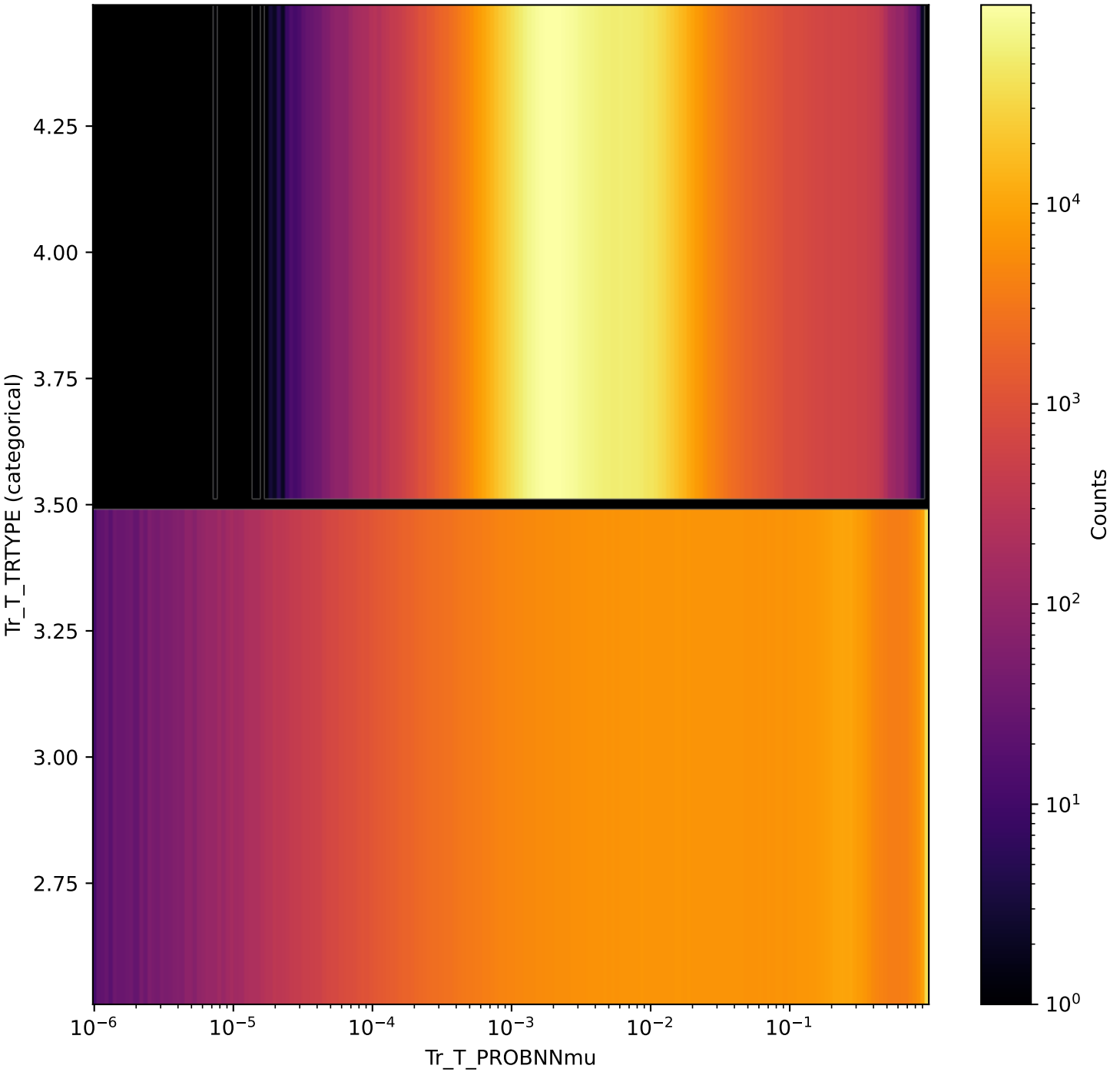

Hist2d Plot ('Tr_T_ADOCA' vs 'Tr_T_IP_trMother')
correlation: 0.87121
Tr_T_IP_trMother
Tr_T_ADOCA
Counts
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{4}
10^{3}
10^{2}

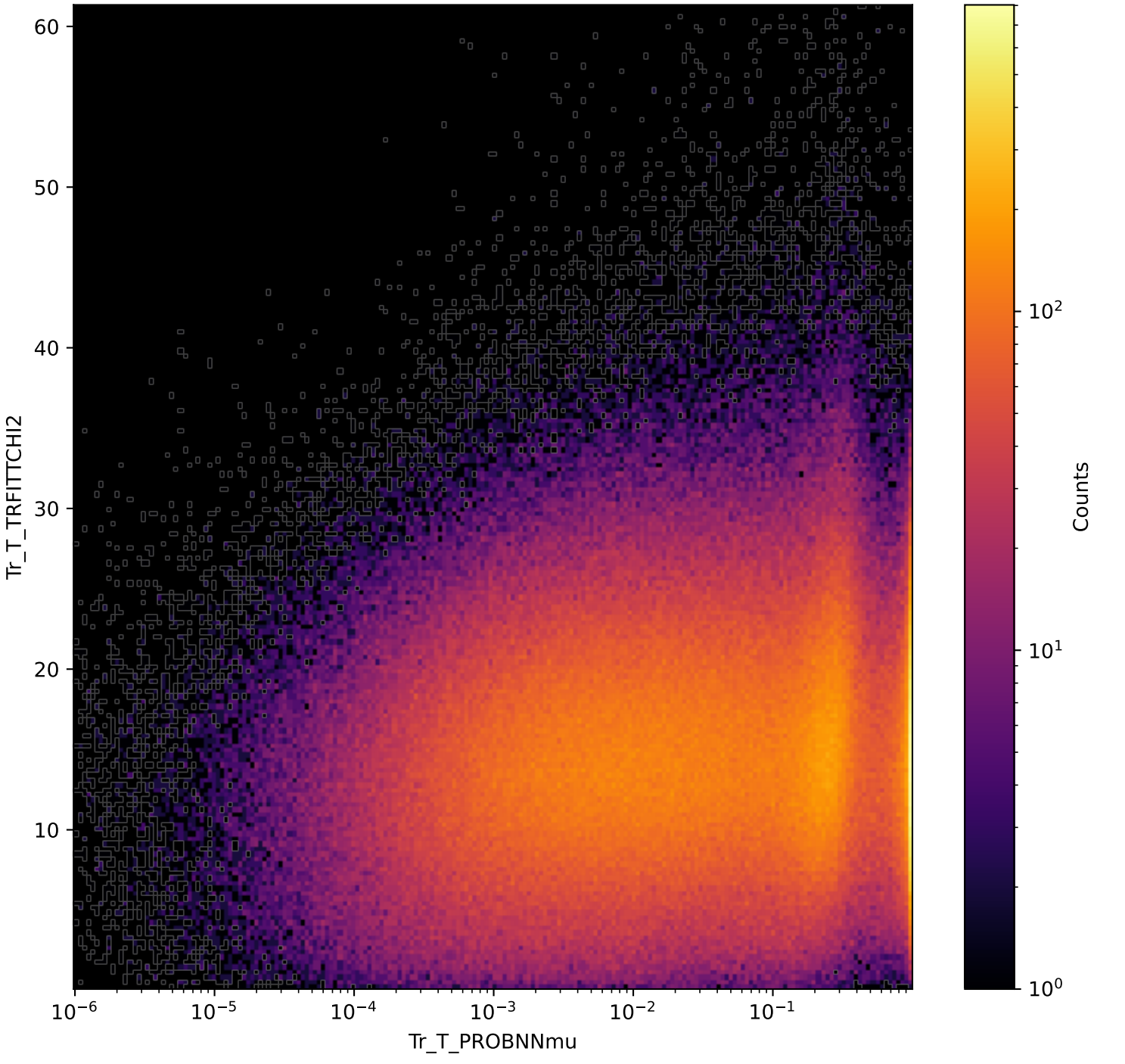

Hist2d Plot ('Tr_T_ADOCA' vs 'Tr_T_Best_PAIR_D')
correlation: 0.87121
Tr_T_Best_PAIR_D
Tr_T_ADOCA
Counts
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
10^{-4}
10^{-3}
10^{-2}
10^{-1}
10^{0}
10^{1}
10^{4}
10^{3}
10^{2}
10^{1}
10^{0}

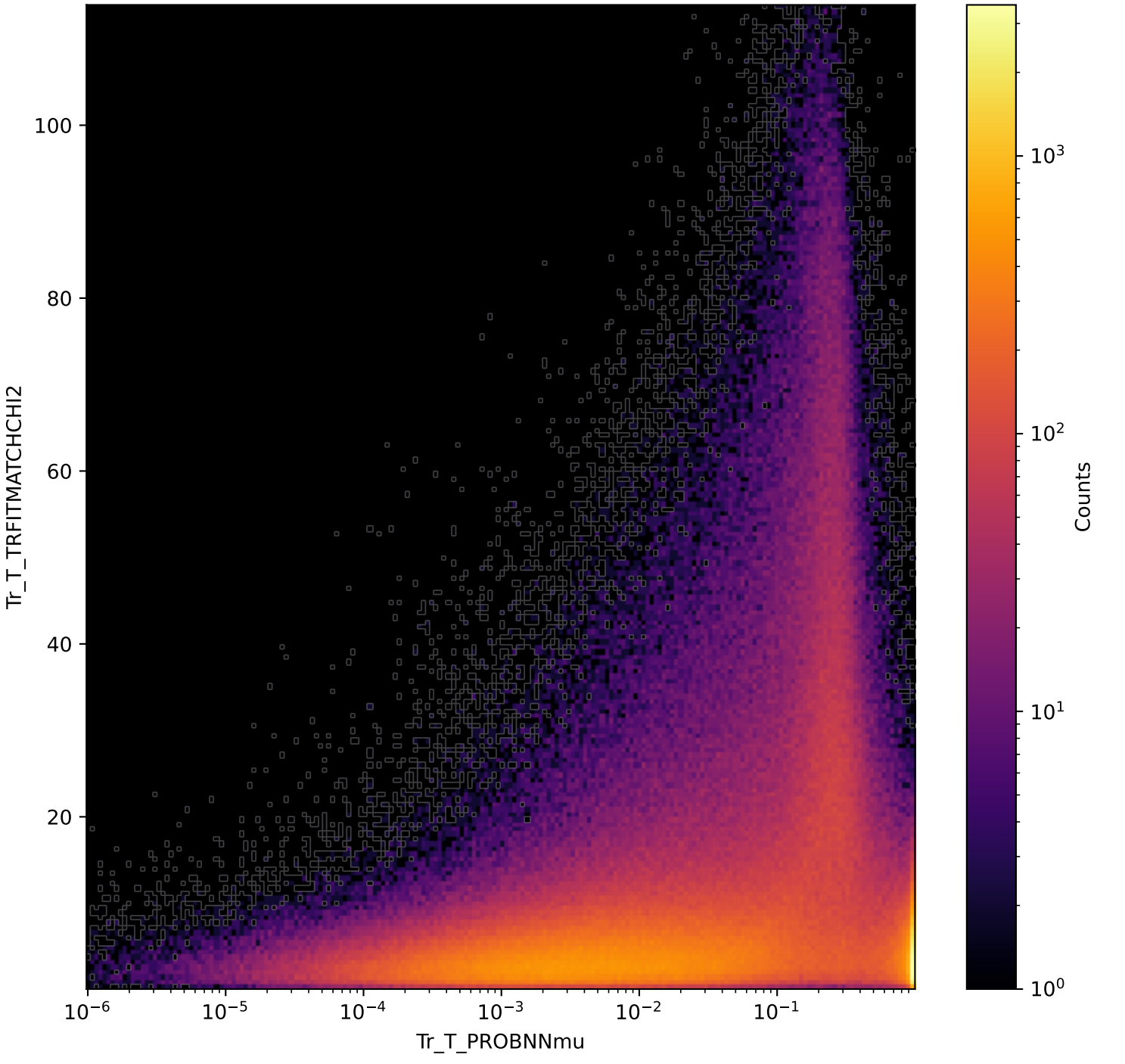

Hist2d Plot ('Tr_diff_z' vs 'Tr_T_Eta')
correlation: 0.84490
Tr_T_Eta
5.0
4.5
4.0
3.5
3.0
2.5
2.0
−100
0
100
200
300
400
500
600
700
Tr_diff_z
10^4
10^3
10^2
10^1
10^0
Counts

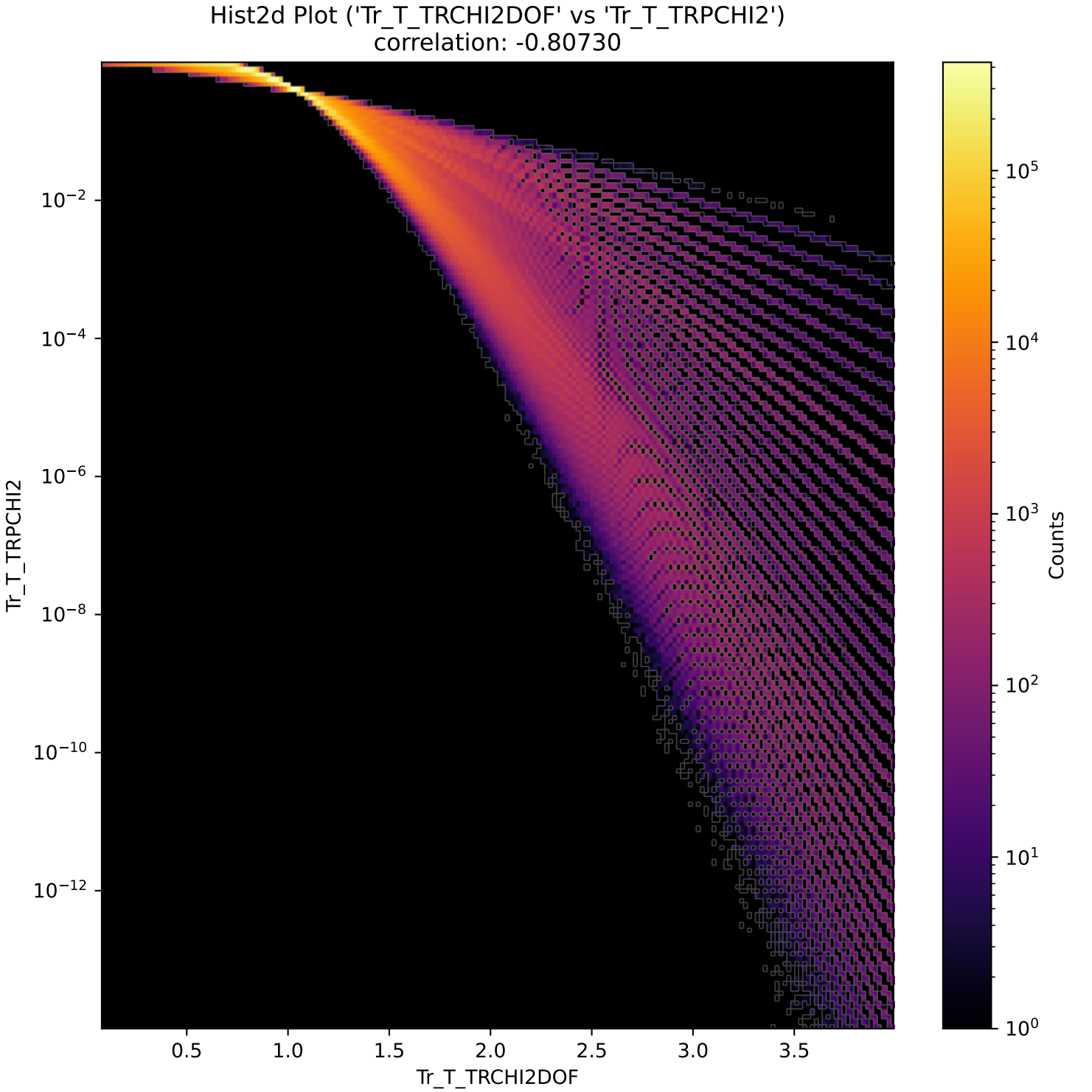

Hist2d Plot ('Tr_T_Eta' vs 'Tr_T_TrFIRSTHITZ')
correlation: 0.83482
Tr_T_TrFIRSTHITZ
600
500
400
300
200
100
0
2.0
2.5
3.0
3.5
4.0
4.5
5.0
Tr_T_Eta
10^4
10^3
10^2
10^1
10^0
Counts

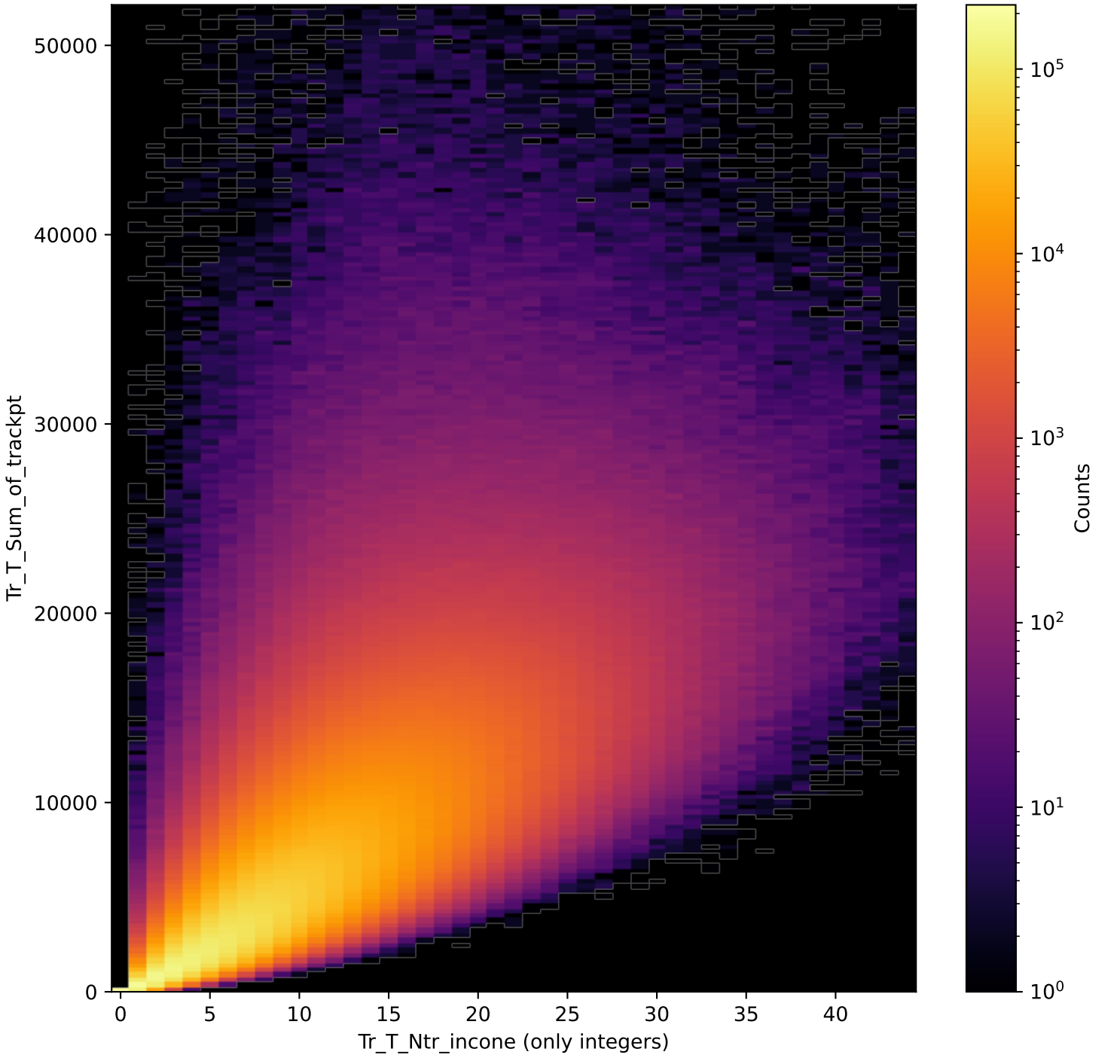

Hist2d Plot ('Tr_T_PROBNNghost' vs 'Tr_T_TRGHOSTPROB')
correlation: 0.82487
Tr_T_TRGHOSTPROB
0.30
0.25
0.20
0.15
0.10
0.05
10^{-4}
10^{-3}
10^{-2}
10^{-1}
Tr_T_PROBNNghost
Counts
10^{4}
10^{3}
10^{2}
10^{1}
10^{0}

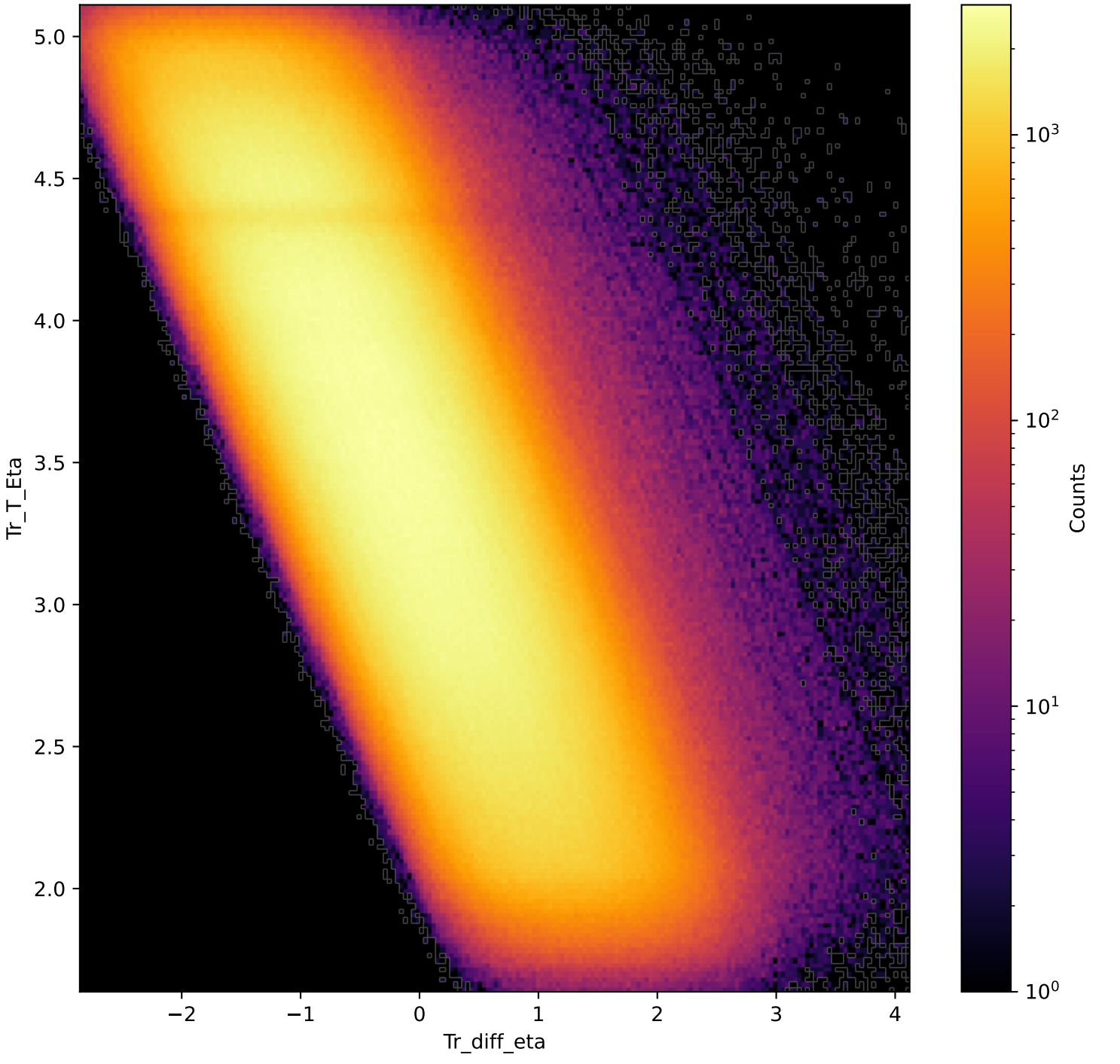

Hist2d Plot ('Tr_T_PROBNNmu' vs 'Tr_T_TRTYPE')
correlation: 0.82207
Tr_T_TRTYPE (categorical)
4.25
4.00
3.75
3.50
3.25
3.00
2.75
10^{-6}
10^{-5}
10^{-4}
10^{-3}
10^{-2}
10^{-1}
Tr_T_PROBNNmu
10^{4}
10^{3}
10^{2}
10^{1}
10^{0}
Counts

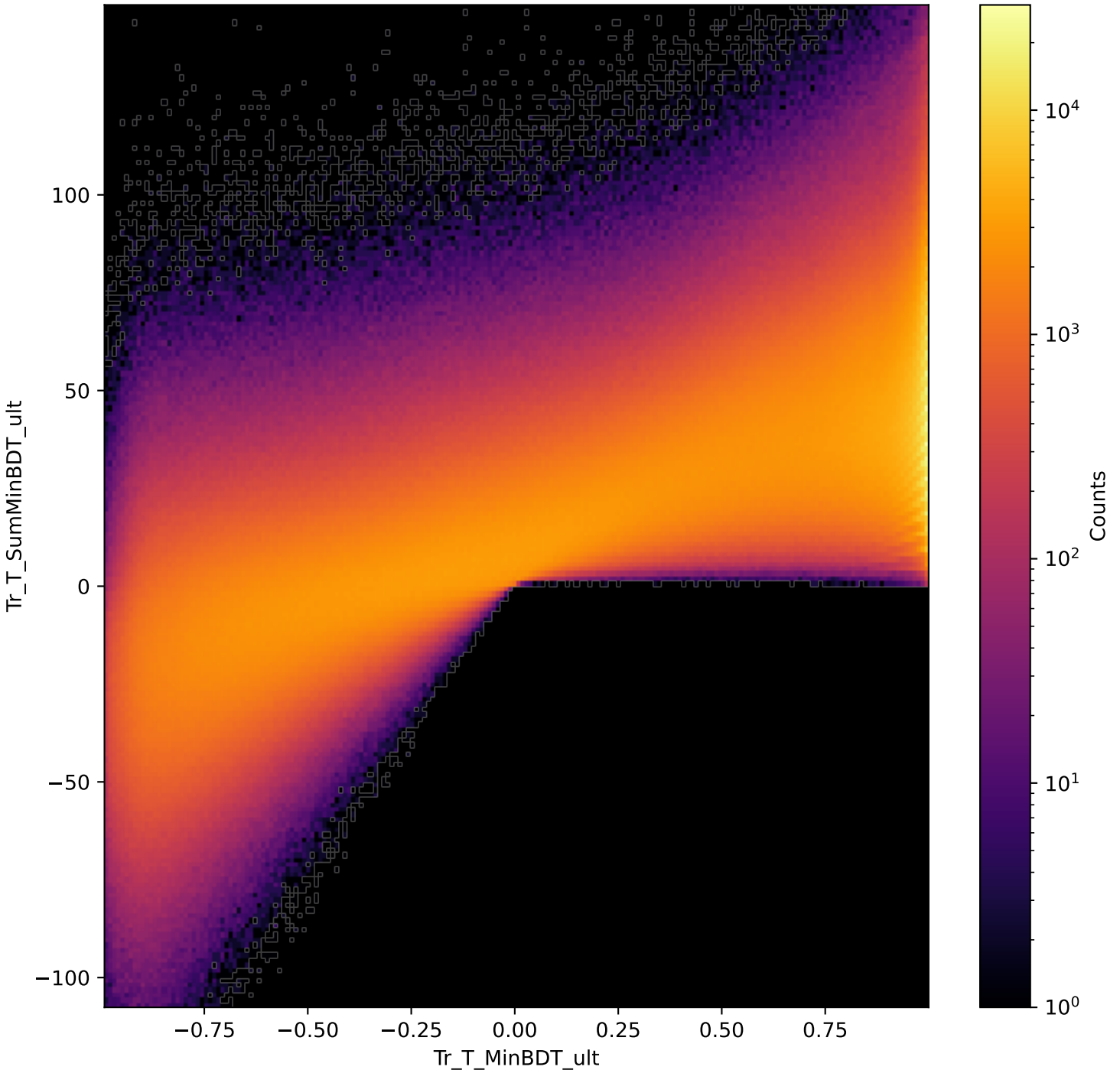

Hist2d Plot ('Tr_T_PROBNNmu' vs 'Tr_T_TRFITTCHI2')
correlation: -0.82185
Tr_T_TRFITTCHI2
Tr_T_PROBNNmu
Counts
60
50
40
30
20
10
10^{-6}
10^{-5}
10^{-4}
10^{-3}
10^{-2}
10^{-1}
10^{2}
10^{1}
10^{0}

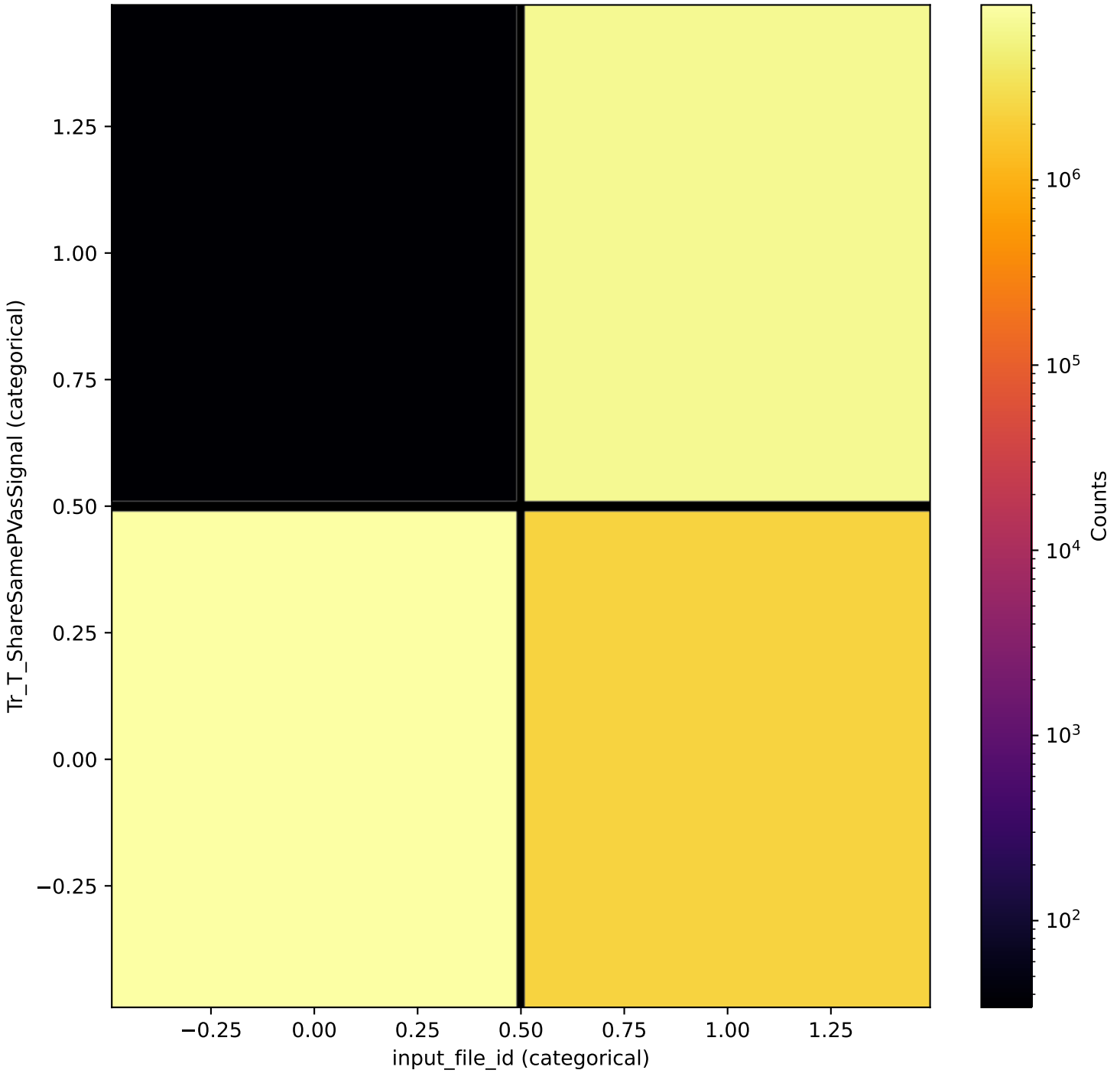

Hist2d Plot ('Tr_T_PROBNNmu' vs 'Tr_T_TRFITMATCHCHI2')
correlation: -0.82069
Tr_T_TRFITMATCHCHI2
Tr_T_PROBNNmu
Counts
100
80
60
40
20
10^{-6}
10^{-5}
10^{-4}
10^{-3}
10^{-2}
10^{-1}
10^{3}
10^{2}
10^{1}
10^{0}

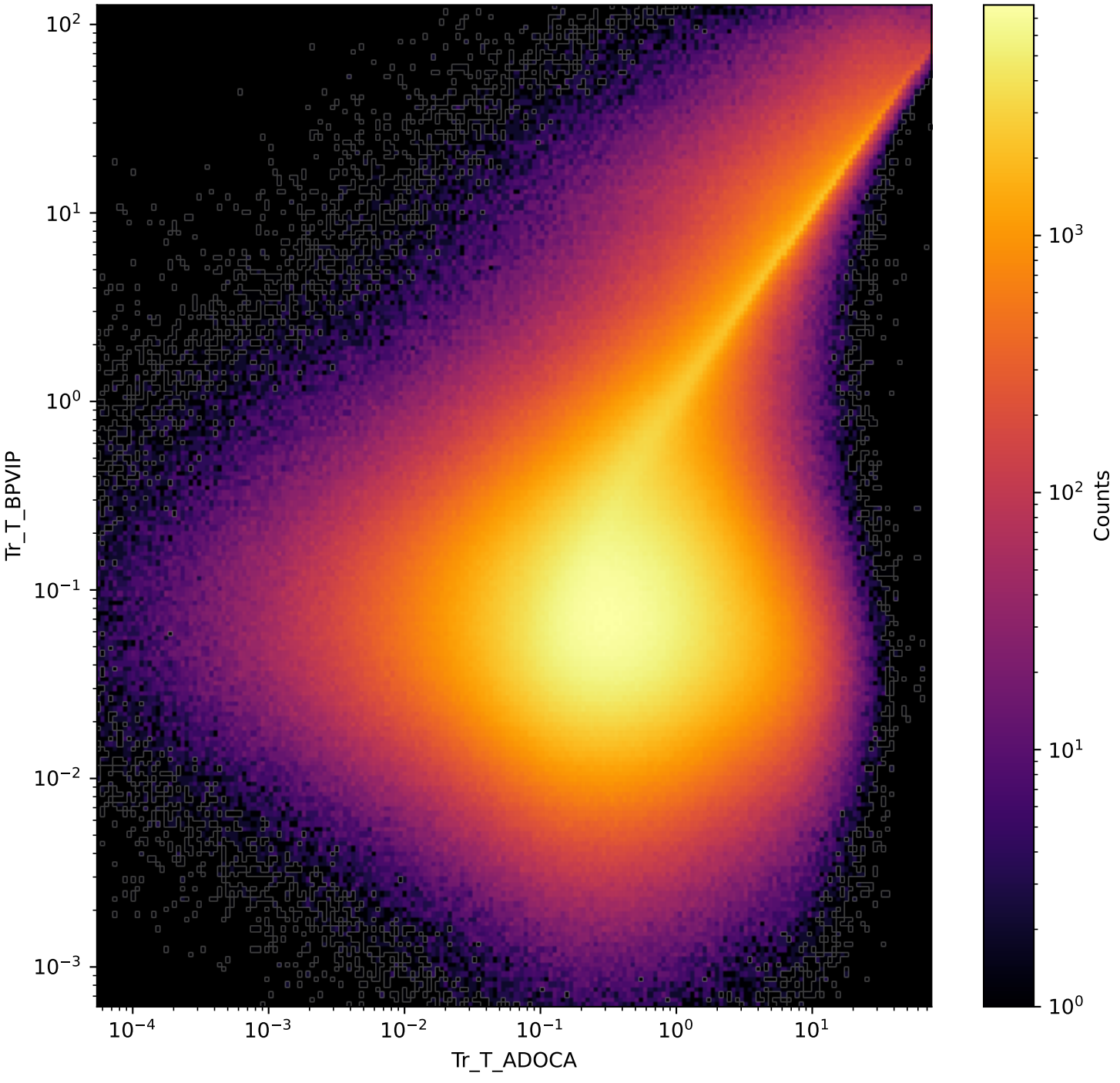

Hist2d Plot ('Tr_T_TRCHI2DOF' vs 'Tr_T_TRPCHI2')
correlation: -0.80730
Tr_T_TRPCHI2
10^{-2}
10^{-4}
10^{-6}
10^{-8}
10^{-10}
10^{-12}
0.5
1.0
1.5
2.0
2.5
3.0
3.5
Tr_T_TRCHI2DOF
Counts
10^{5}
10^{4}
10^{3}
10^{2}
10^{1}
10^{0}

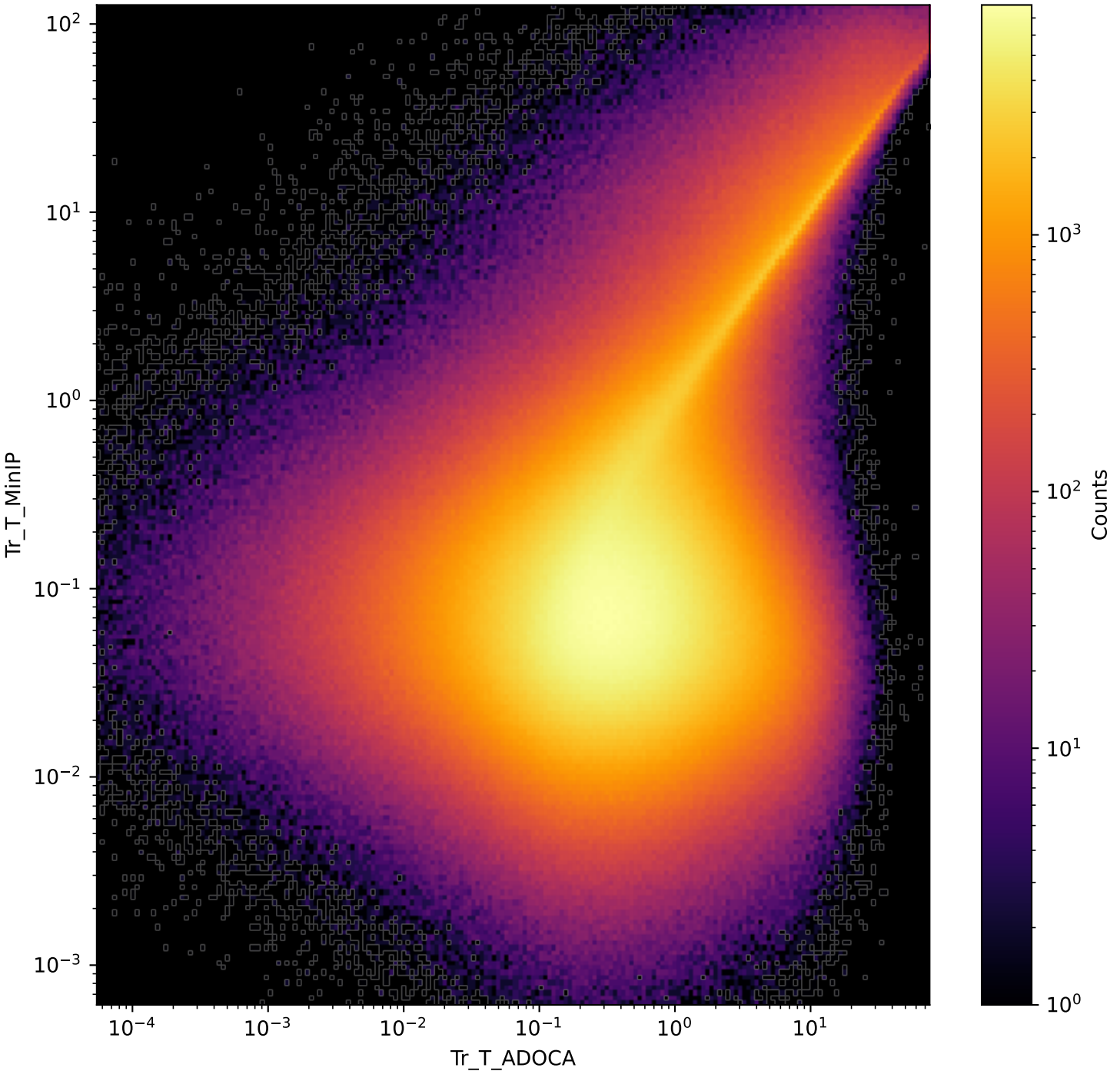

Hist2d Plot ('Tr_T_Ntr_incone' vs 'Tr_T_Sum_of_trackpt')
correlation: 0.78439
Tr_T_Sum_of_trackpt
Tr_T_Ntr_incone (only integers)
Counts
0
10000
20000
30000
40000
50000
0
5
10
15
20
25
30
35
40
10^0
10^1
10^2
10^3
10^4
10^5

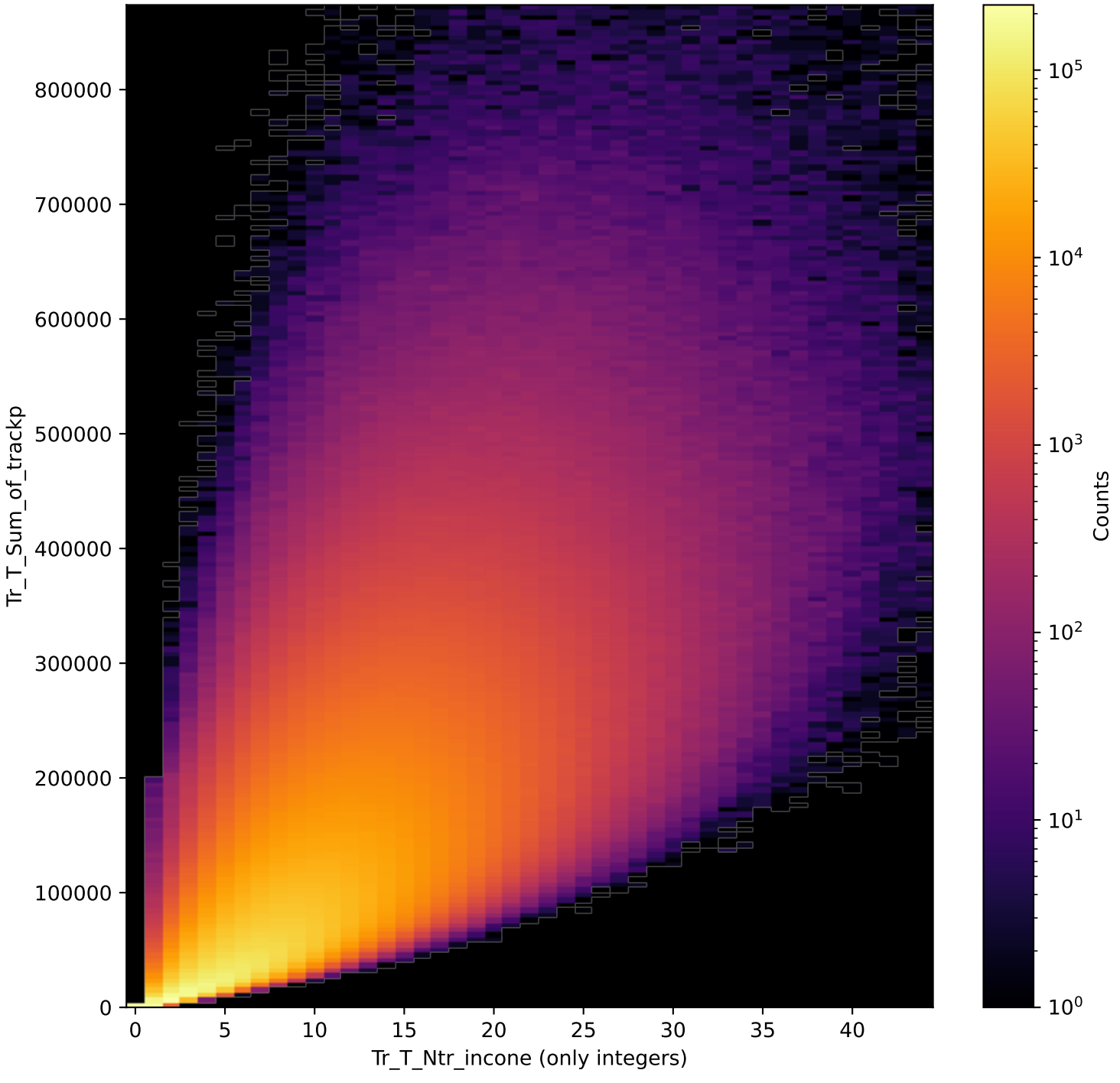

Hist2d Plot ('Tr_diff_eta' vs 'Tr_T_Eta')
correlation: -0.77952
Tr_T_Eta
Tr_diff_eta
Counts
5.0
4.5
4.0
3.5
3.0
2.5
2.0
−2
−1
0
1
2
3
4
10^3
10^2
10^1
10^0

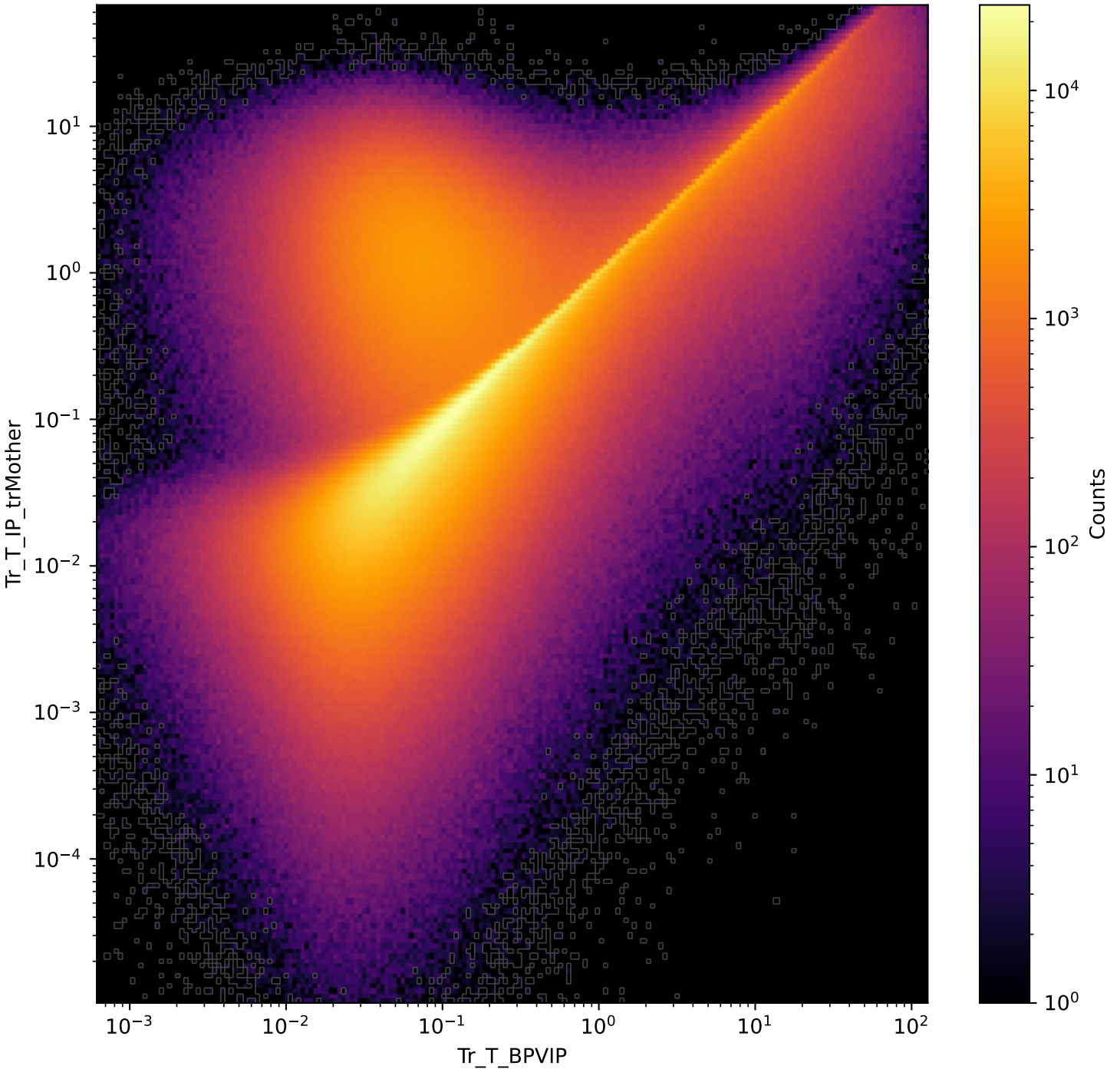

Hist2d Plot ('Tr_T_MinBDT_ult' vs 'Tr_T_SumMinBDT_ult')
correlation: 0.77719
Tr_T_SumMinBDT_ult
100
50
0
−50
−100
−0.75
−0.50
−0.25
0.00
0.25
0.50
0.75
Tr_T_MinBDT_ult
Counts
10^4
10^3
10^2
10^1
10^0

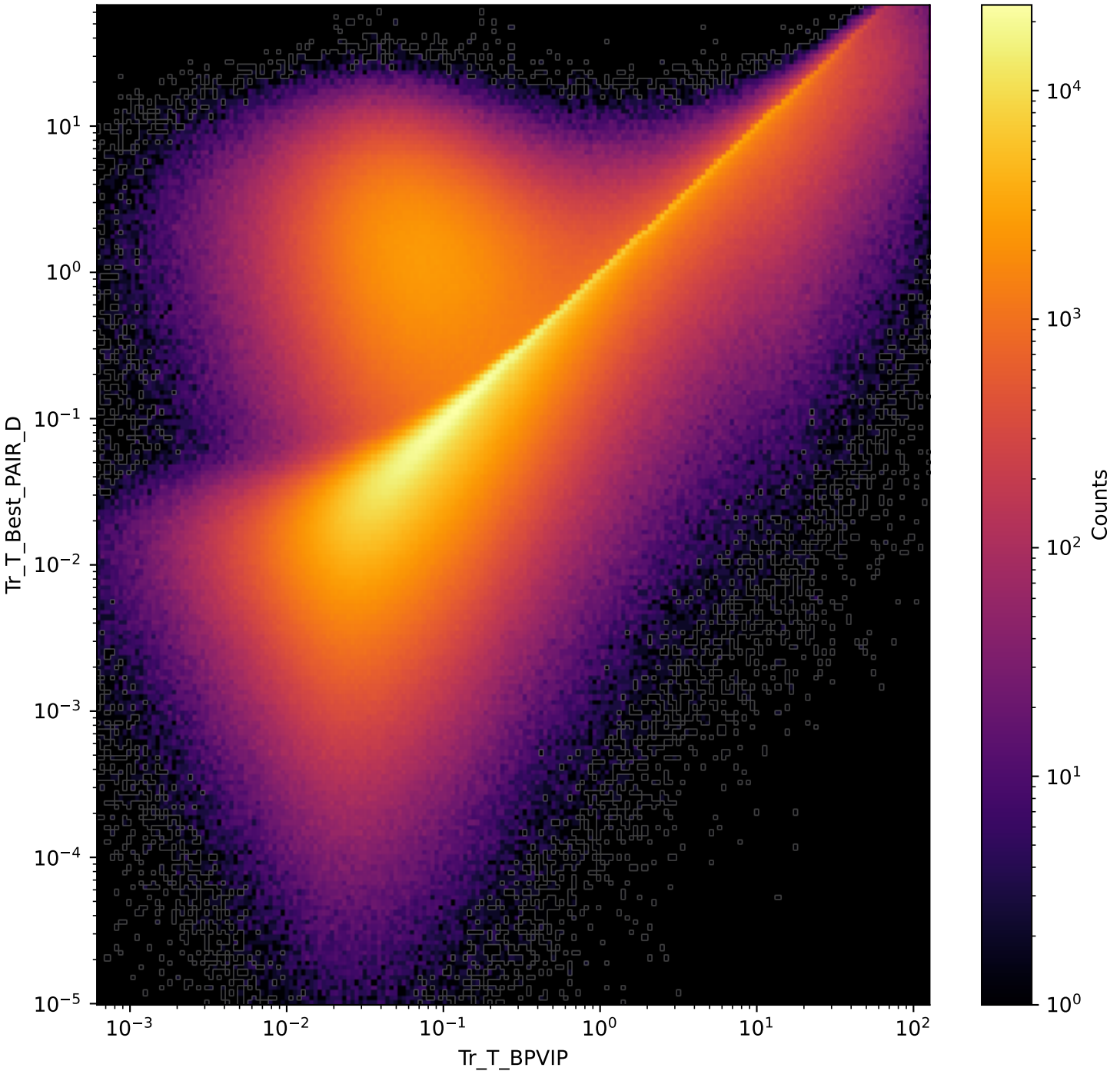

Hist2d Plot ('input_file_id' vs 'Tr_T_ShareSamePVasSignal')
correlation: 0.76875
Tr_T_ShareSamePVasSignal (categorical)
1.25
1.00
0.75
0.50
0.25
0.00
−0.25
input_file_id (categorical)
−0.25
0.00
0.25
0.50
0.75
1.00
1.25
Counts
10^6
10^5
10^4
10^3
10^2

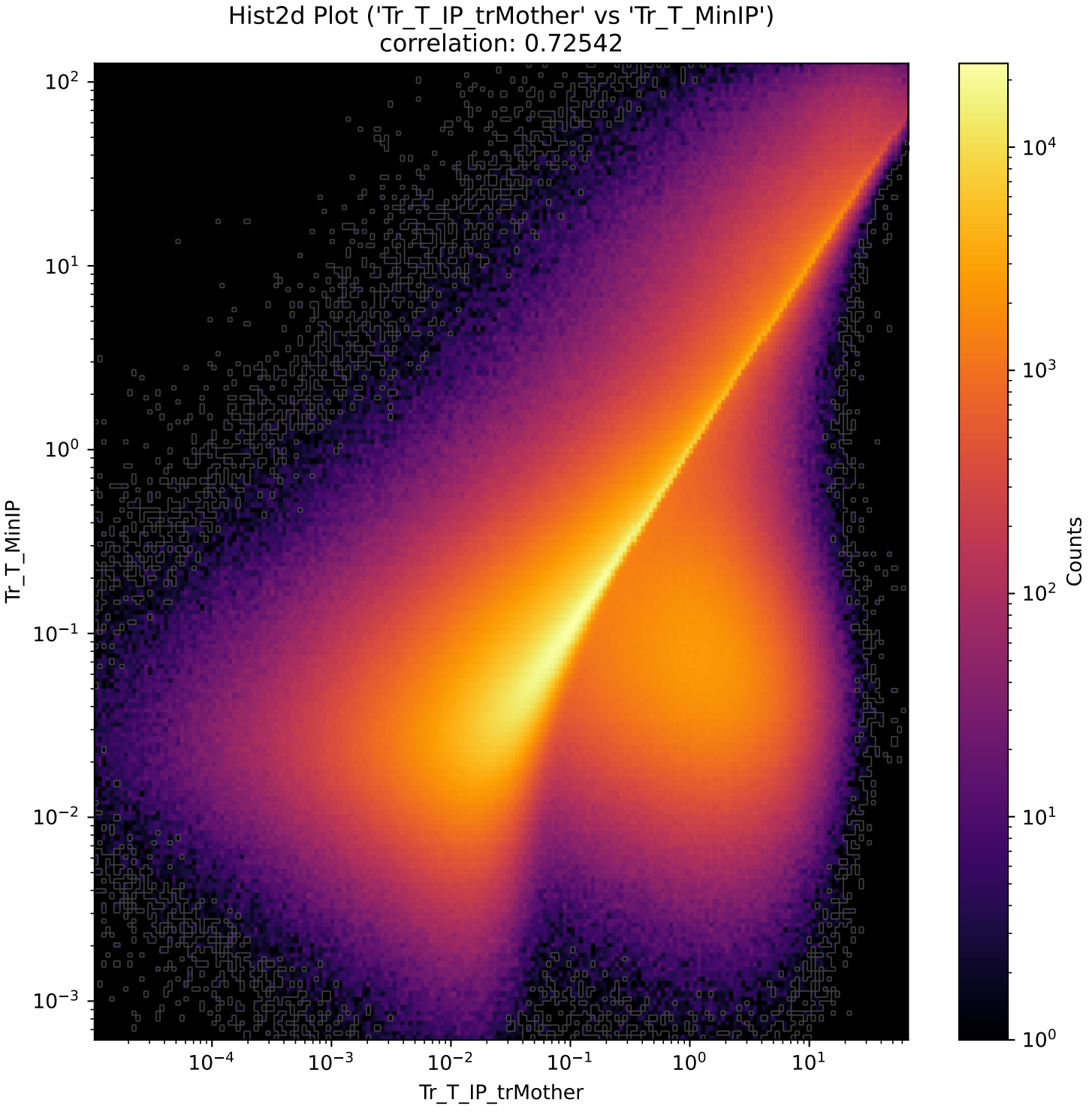

Hist2d Plot ('Tr_T_ADOCA' vs 'Tr_T_BPVIP')
correlation: 0.72845
Tr_T_BPVIP
Tr_T_ADOCA
Counts
10^{2}
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{3}

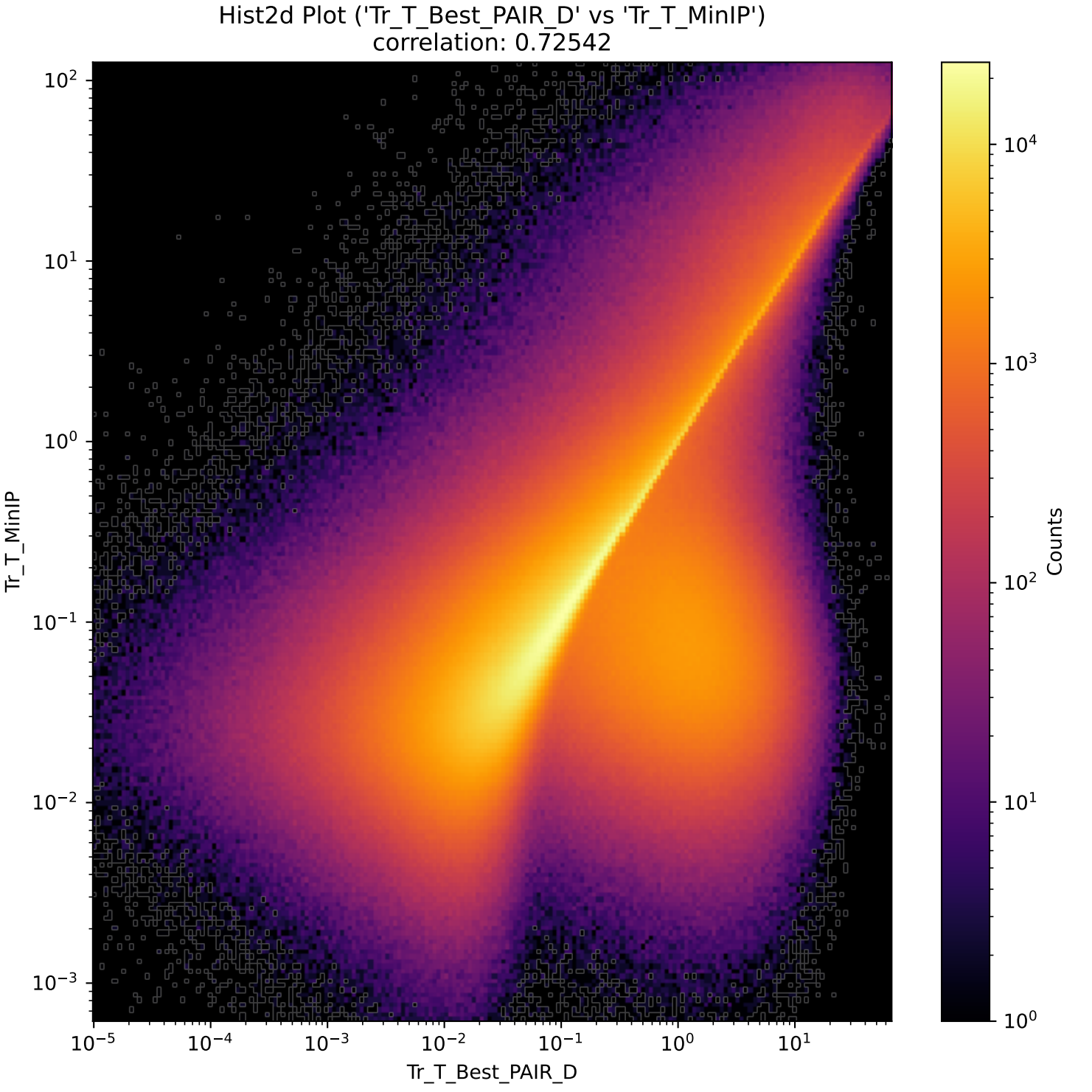

Hist2d Plot ('Tr_T_ADOCA' vs 'Tr_T_MinIP')
correlation: 0.72840
Tr_T_MinIP
Tr_T_ADOCA
Counts
10^{2}
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{3}

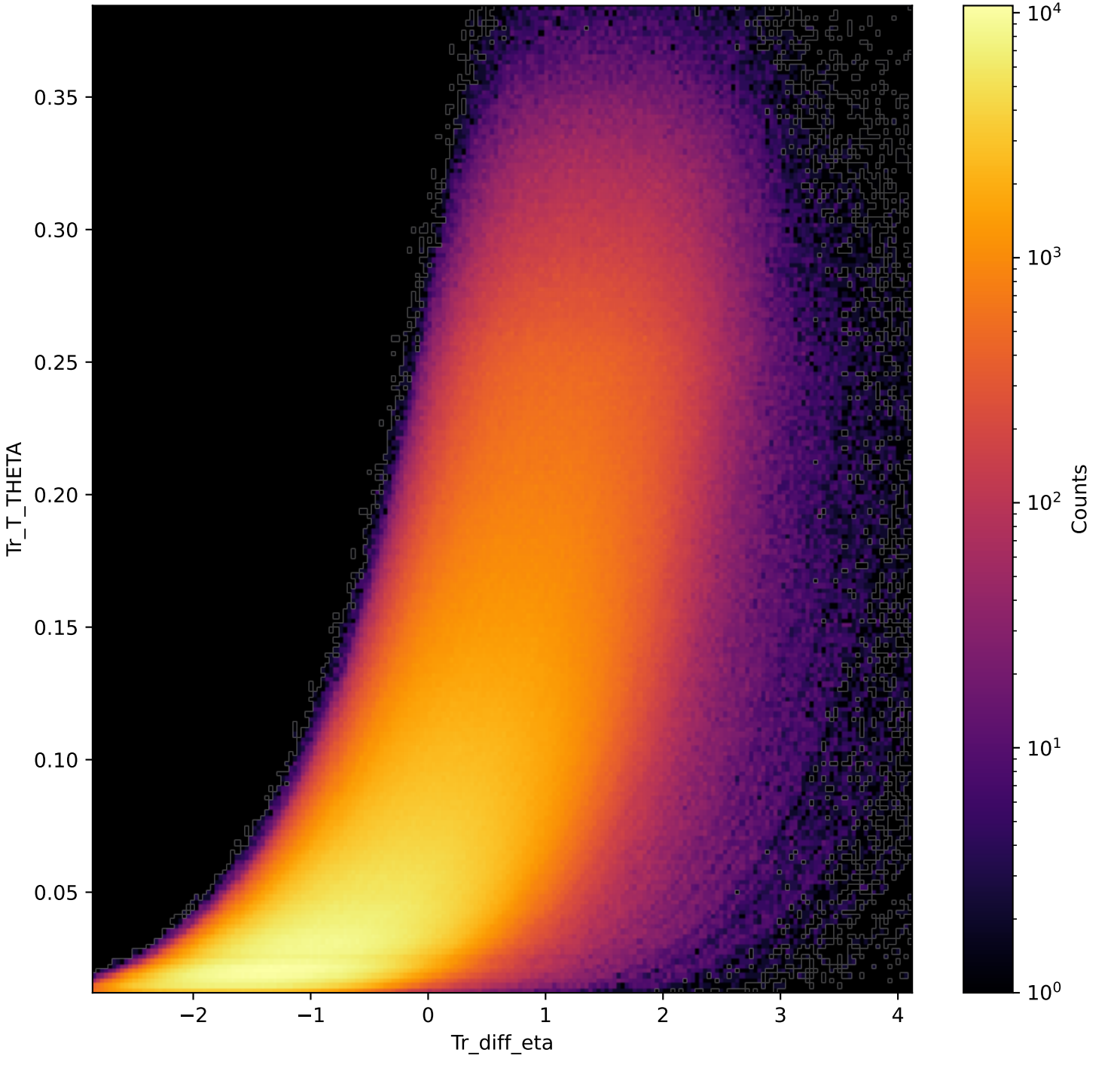

Hist2d Plot ('Tr_T_Ntr_incone' vs 'Tr_T_Sum_of_trackp')
correlation: 0.72796
Tr_T_Sum_of_trackp
Tr_T_Ntr_incone (only integers)
Counts
0
100000
200000
300000
400000
500000
600000
700000
800000
0
5
10
15
20
25
30
35
40
10^0
10^1
10^2
10^3
10^4
10^5

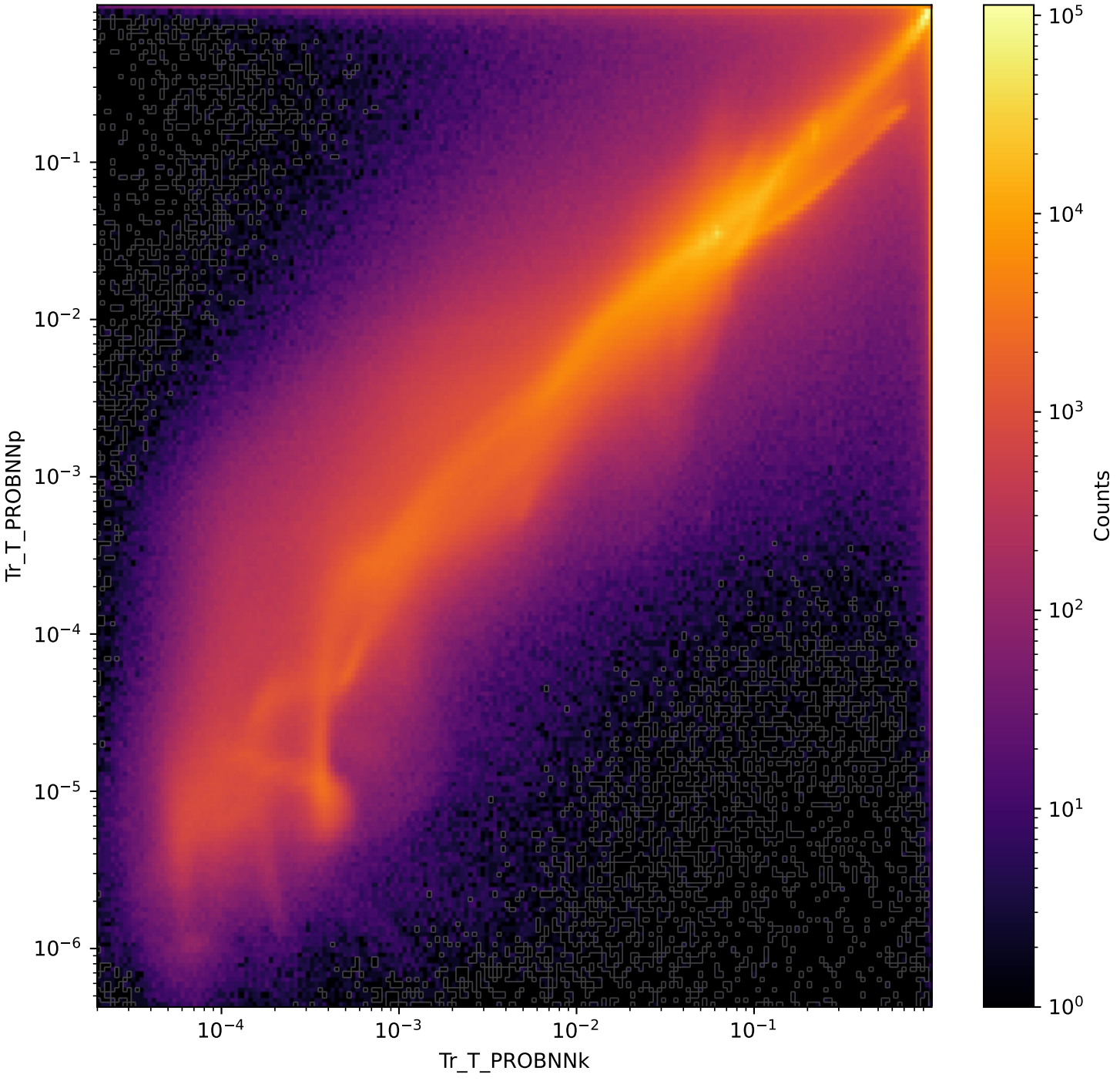

Hist2d Plot ('Tr_T_BPVIP' vs 'Tr_T_IP_trMother')
correlation: 0.72590
Tr_T_IP_trMother
Tr_T_BPVIP
Counts
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-3}
10^{-2}
10^{-1}
10^{0}
10^{1}
10^{2}
10^{4}
10^{3}
10^{2}
10^{1}
10^{0}


Hist2d Plot ('Tr_T_BPVIP' vs 'Tr_T_Best_PAIR_D')
correlation: 0.72590
Tr_T_Best_PAIR_D
Tr_T_BPVIP
Counts
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
10^{-3}
10^{-2}
10^{-1}
10^{0}
10^{1}
10^{2}
10^{4}
10^{3}
10^{2}
10^{1}
10^{0}


Hist2d Plot ('Tr_T_IP_trMother' vs 'Tr_T_MinIP')
correlation: 0.72542
Tr_T_MinIP
Tr_T_IP_trMother
Counts
10^{2}
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-3}
10^{-2}
10^{-1}
10^{0}
10^{1}
10^{4}
10^{3}
10^{2}
10^{1}
10^{0}


Hist2d Plot ('Tr_T_Best_PAIR_D' vs 'Tr_T_MinIP')
correlation: 0.72542
Tr_T_MinIP
Tr_T_Best_PAIR_D
Counts
10^{2}
10^{1}
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{-5}
10^{-4}
10^{-3}
10^{-2}
10^{-1}
10^{0}
10^{1}
10^{4}
10^{3}
10^{2}
10^{1}
10^{0}


Hist2d Plot ('Tr_diff_eta' vs 'Tr_T_THETA')
correlation: 0.72113
Tr_T_THETA
0.35
0.30
0.25
0.20
0.15
0.10
0.05
−2
−1
0
1
2
3
4
Tr_diff_eta
10^4
10^3
10^2
10^1
10^0
Counts


Hist2d Plot ('Tr_T_PROBNNk' vs 'Tr_T_PROBNNp')
correlation: 0.71382
Tr_T_PROBNNp
Tr_T_PROBNNk
Counts
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
10^{-6}
10^{-4}
10^{-3}
10^{-2}
10^{-1}
10^{5}
10^{4}
10^{3}
10^{2}
10^{1}
10^{0}