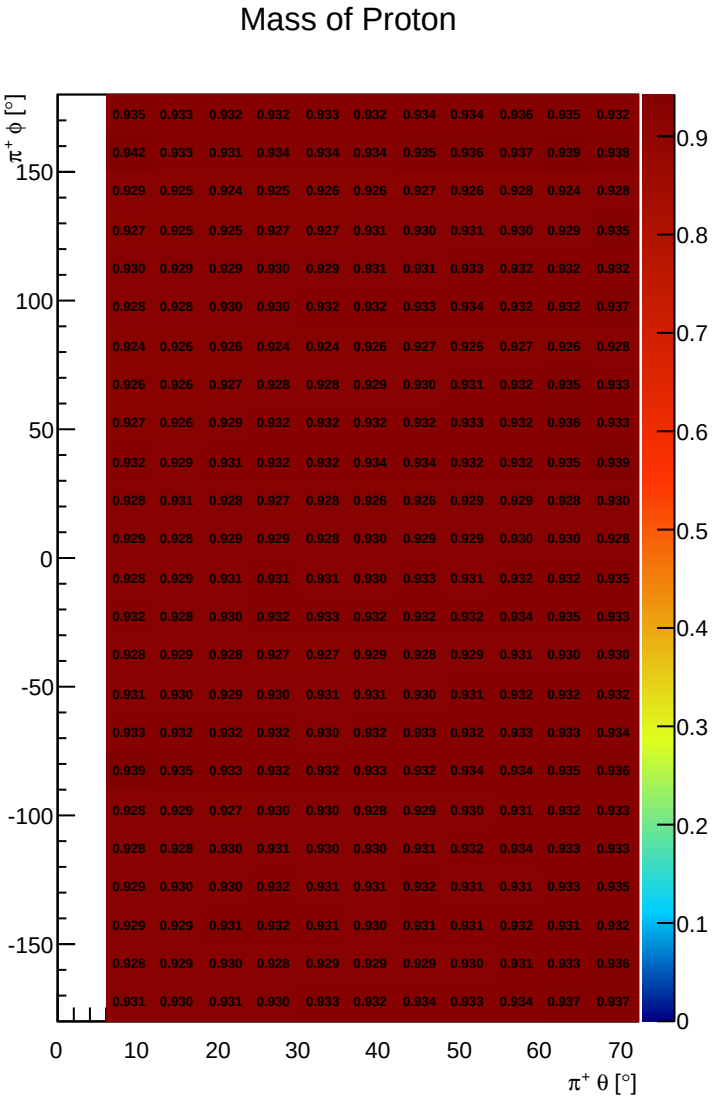
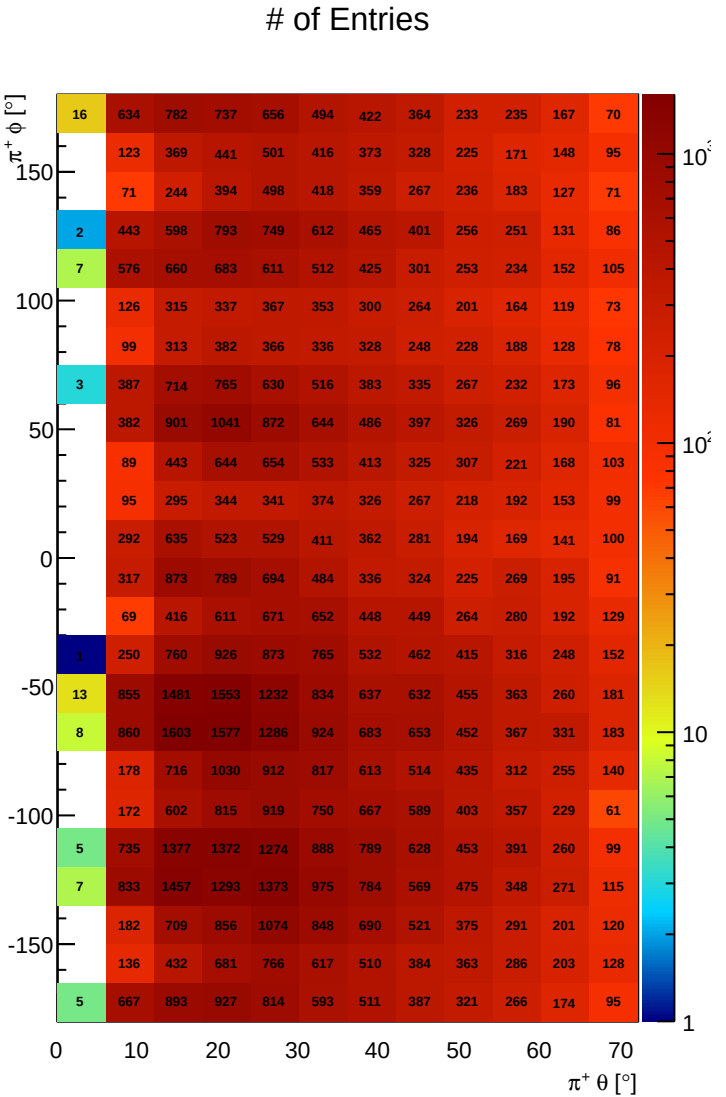
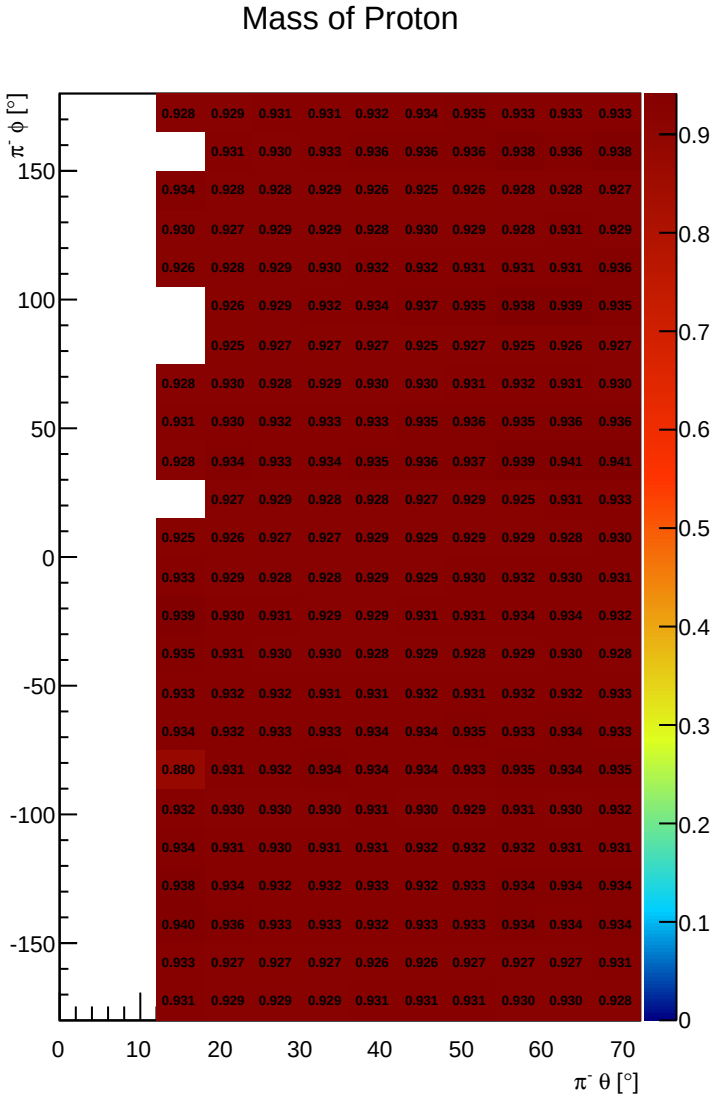
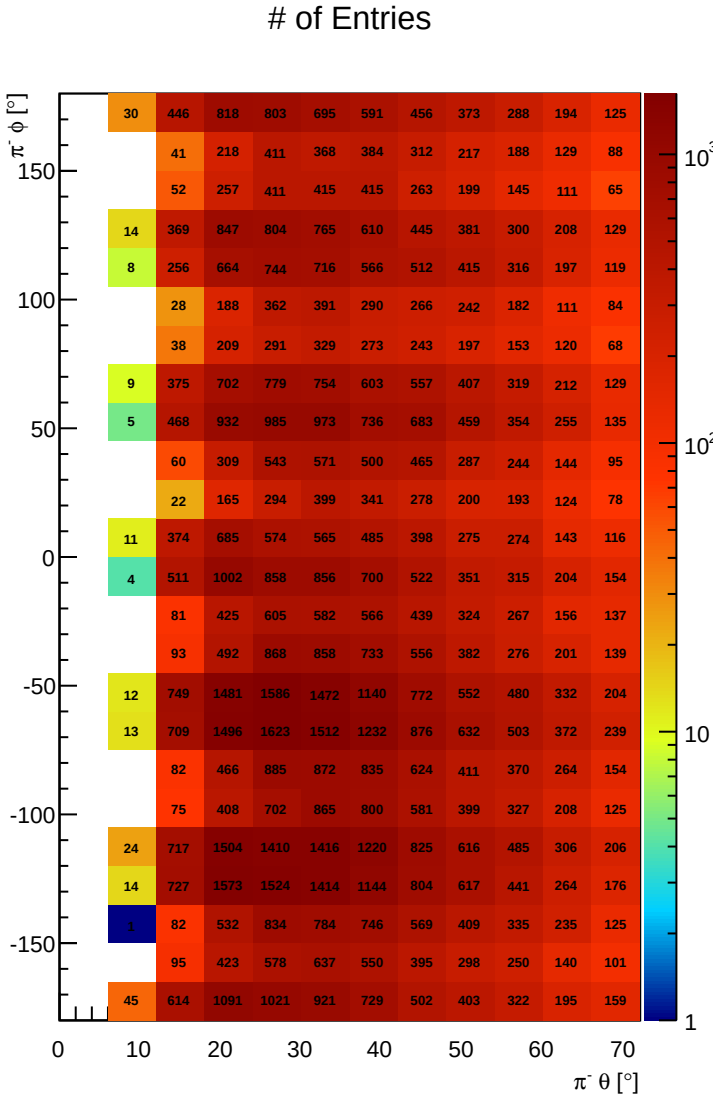
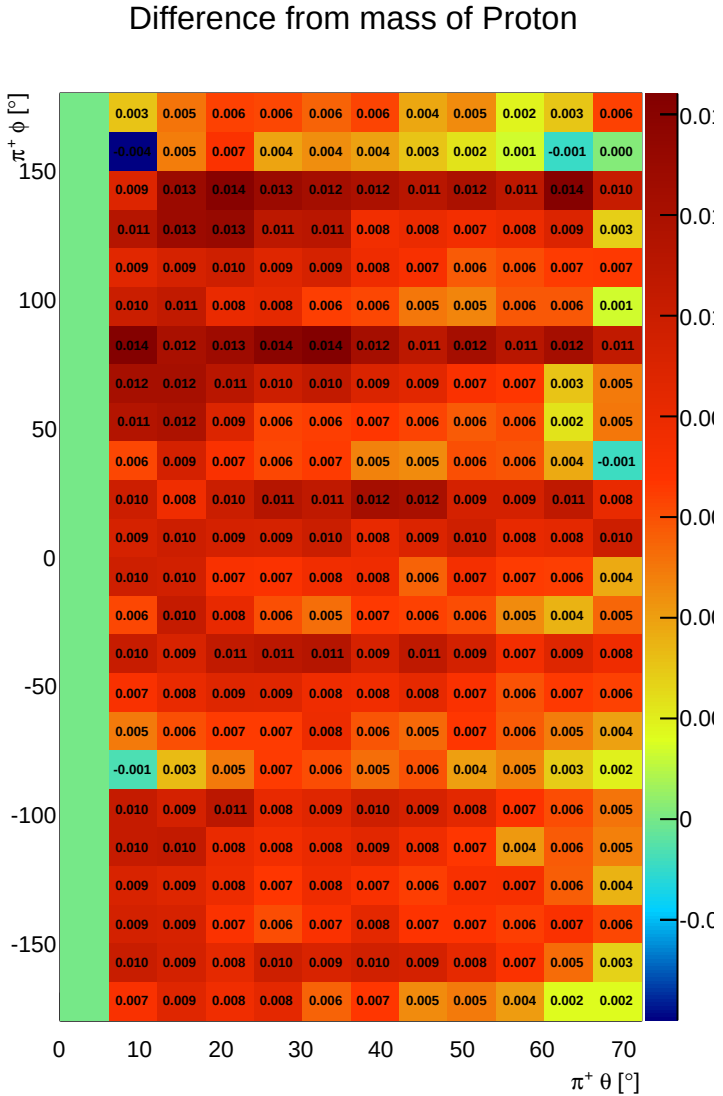
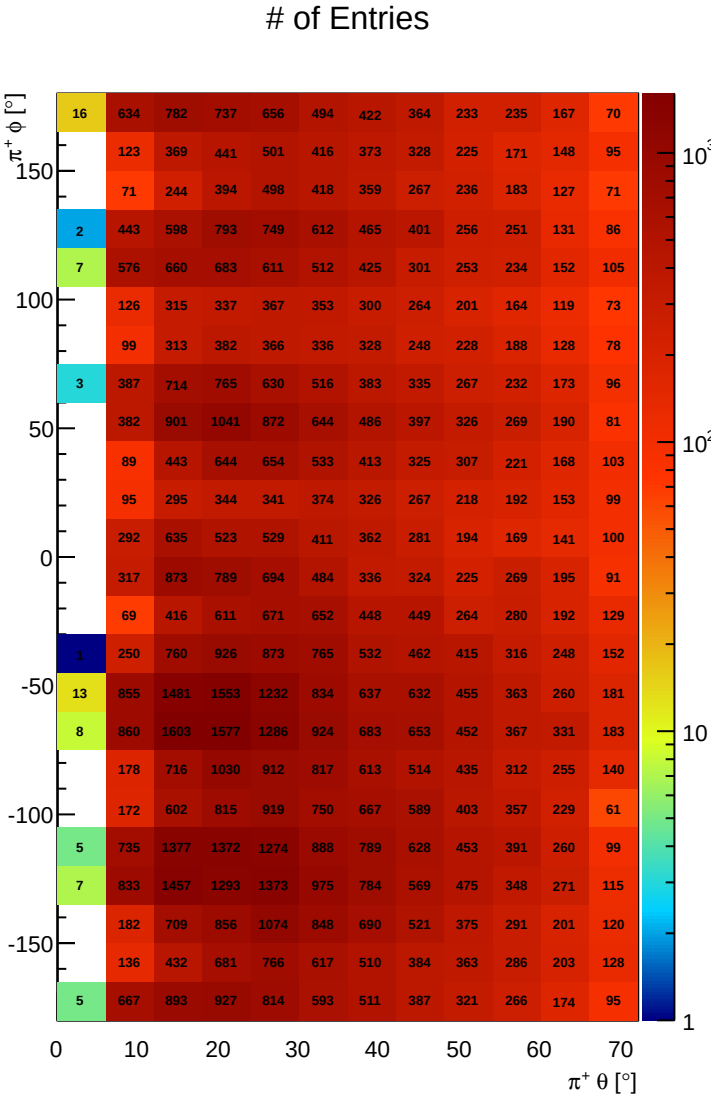

Mass of Proton
π⁺ ϕ [°]
π⁺ θ [°]

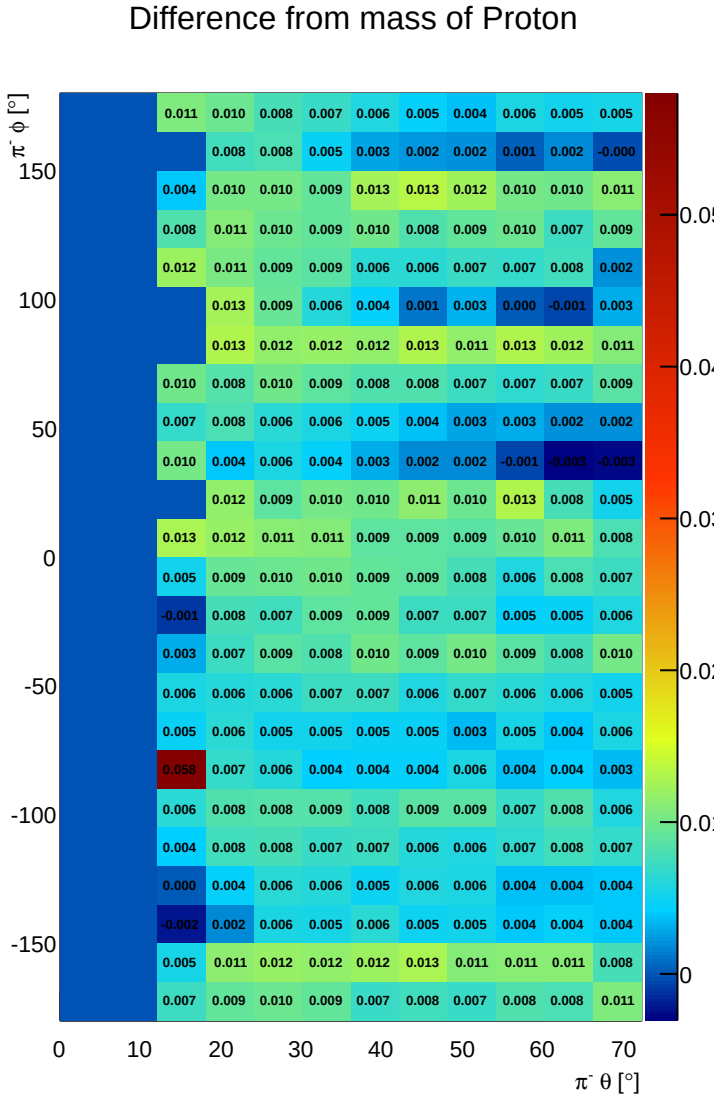

# of Entries
π⁺ ϕ [°]
π⁺ θ [°]


Mass of Proton
π⁻ ϕ [°]
150
100
50
0
-50
-100
-150
0 10 20 30 40 50 60 70
π⁻ θ [°]
0.928 0.929 0.931 0.931 0.932 0.934 0.935 0.933 0.933 0.933
0.931 0.930 0.933 0.936 0.936 0.936 0.938 0.936 0.938
0.934 0.928 0.928 0.929 0.926 0.925 0.926 0.928 0.928 0.927
0.930 0.927 0.929 0.929 0.928 0.930 0.929 0.928 0.931 0.929
0.926 0.928 0.929 0.930 0.932 0.932 0.931 0.931 0.931 0.936
0.926 0.929 0.932 0.934 0.937 0.935 0.938 0.939 0.935
0.925 0.927 0.927 0.927 0.925 0.927 0.925 0.926 0.927
0.928 0.930 0.928 0.929 0.930 0.930 0.931 0.932 0.931 0.930
0.931 0.930 0.932 0.933 0.933 0.935 0.936 0.935 0.936 0.936
0.928 0.934 0.933 0.934 0.935 0.936 0.937 0.939 0.941 0.941
0.927 0.929 0.928 0.928 0.927 0.929 0.925 0.931 0.933
0.925 0.926 0.927 0.927 0.929 0.929 0.929 0.929 0.928 0.930
0.933 0.929 0.928 0.928 0.929 0.929 0.930 0.932 0.930 0.931
0.939 0.930 0.931 0.929 0.929 0.931 0.931 0.934 0.934 0.932
0.935 0.931 0.930 0.930 0.928 0.929 0.928 0.929 0.930 0.928
0.933 0.932 0.932 0.931 0.931 0.932 0.931 0.932 0.932 0.933
0.934 0.932 0.933 0.933 0.934 0.934 0.935 0.933 0.934 0.933
0.880 0.931 0.932 0.934 0.934 0.934 0.933 0.935 0.934 0.935
0.932 0.930 0.930 0.930 0.931 0.930 0.929 0.931 0.930 0.932
0.934 0.931 0.930 0.931 0.931 0.932 0.932 0.932 0.931 0.931
0.938 0.934 0.932 0.932 0.933 0.932 0.933 0.934 0.934 0.934
0.940 0.936 0.933 0.933 0.932 0.933 0.933 0.934 0.934 0.934
0.933 0.927 0.927 0.927 0.926 0.926 0.927 0.927 0.927 0.931
0.931 0.929 0.929 0.929 0.931 0.931 0.931 0.930 0.930 0.928
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0


# of Entries
π⁻ ϕ [°]
150
100
50
0
-50
-100
-150
0 10 20 30 40 50 60 70
π⁻ θ [°]
30 446 818 803 695 591 456 373 288 194 125
41 218 411 368 384 312 217 188 129 88
52 257 411 415 415 263 199 145 111 65
14 369 847 804 765 610 445 381 300 208 129
8 256 664 744 716 566 512 415 316 197 119
28 188 362 391 290 266 242 182 111 84
38 209 291 329 273 243 197 153 120 68
9 375 702 779 754 603 557 407 319 212 129
5 468 932 985 973 736 683 459 354 255 135
60 309 543 571 500 465 287 244 144 95
22 165 294 399 341 278 200 193 124 78
11 374 685 574 565 485 398 275 274 143 116
4 511 1002 858 856 700 522 351 315 204 154
81 425 605 582 566 439 324 267 156 137
93 492 868 858 733 556 382 276 201 139
12 749 1481 1586 1472 1140 772 552 480 332 204
13 709 1496 1623 1512 1232 876 632 503 372 239
82 466 885 872 835 624 411 370 264 154
75 408 702 865 800 581 399 327 208 125
24 717 1504 1410 1416 1220 825 616 485 306 206
14 727 1573 1524 1414 1144 804 617 441 264 176
1 82 532 834 784 746 569 409 335 235 125
95 423 578 637 550 395 298 250 140 101
45 614 1091 1021 921 729 502 403 322 195 159
10³
10²
10
1


Difference from mass of Proton
π⁺ ϕ [°]
150
100
50
0
-50
-100
-150
0 10 20 30 40 50 60 70
π⁺ θ [°]
0.003 0.005 0.006 0.006 0.006 0.006 0.004 0.005 0.002 0.003 0.006
-0.004 0.005 0.007 0.004 0.004 0.004 0.003 0.002 0.001 -0.001 0.000
0.009 0.013 0.014 0.013 0.012 0.012 0.011 0.012 0.011 0.014 0.010
0.011 0.013 0.013 0.011 0.011 0.008 0.008 0.007 0.008 0.009 0.003
0.009 0.009 0.010 0.009 0.009 0.008 0.007 0.006 0.006 0.007 0.007
0.010 0.011 0.008 0.008 0.006 0.006 0.005 0.005 0.006 0.006 0.001
0.014 0.012 0.013 0.014 0.014 0.012 0.011 0.012 0.011 0.012 0.011
0.012 0.012 0.011 0.010 0.010 0.009 0.009 0.007 0.007 0.003 0.005
0.011 0.012 0.009 0.006 0.006 0.007 0.006 0.006 0.006 0.002 0.005
0.006 0.009 0.007 0.006 0.007 0.005 0.005 0.006 0.006 0.004 -0.001
0.010 0.008 0.010 0.011 0.011 0.012 0.012 0.009 0.009 0.011 0.008
0.009 0.010 0.009 0.009 0.010 0.008 0.009 0.010 0.008 0.008 0.010
0.010 0.010 0.007 0.007 0.008 0.008 0.006 0.007 0.007 0.006 0.004
0.006 0.010 0.008 0.006 0.005 0.007 0.006 0.006 0.005 0.004 0.005
0.010 0.009 0.011 0.011 0.011 0.009 0.011 0.009 0.007 0.009 0.008
0.007 0.008 0.009 0.009 0.008 0.008 0.008 0.007 0.006 0.007 0.006
0.005 0.006 0.007 0.007 0.008 0.006 0.005 0.007 0.006 0.005 0.004
-0.001 0.003 0.005 0.007 0.006 0.005 0.006 0.004 0.005 0.003 0.002
0.010 0.009 0.011 0.008 0.009 0.010 0.009 0.008 0.007 0.006 0.005
0.010 0.010 0.008 0.008 0.008 0.009 0.008 0.007 0.004 0.006 0.005
0.009 0.009 0.008 0.007 0.008 0.007 0.006 0.007 0.007 0.006 0.004
0.009 0.009 0.007 0.006 0.007 0.008 0.007 0.007 0.006 0.007 0.006
0.010 0.009 0.008 0.010 0.009 0.010 0.009 0.008 0.007 0.005 0.003
0.007 0.009 0.008 0.008 0.006 0.007 0.005 0.005 0.004 0.002 0.002
0.0
0.0
0.0
0.0
0.0
0
-0.0


# of Entries
π⁺ ϕ [°]
150
100
50
0
-50
-100
-150
0 10 20 30 40 50 60 70
π⁺ θ [°]
16 634 782 737 656 494 422 364 233 235 167 70
123 369 441 501 416 373 328 225 171 148 95
71 244 394 498 418 359 267 236 183 127 71
2 443 598 793 749 612 465 401 256 251 131 86
7 576 660 683 611 512 425 301 253 234 152 105
126 315 337 367 353 300 264 201 164 119 73
99 313 382 366 336 328 248 228 188 128 78
3 387 714 765 630 516 383 335 267 232 173 96
382 901 1041 872 644 486 397 326 269 190 81
89 443 644 654 533 413 325 307 221 168 103
95 295 344 341 374 326 267 218 192 153 99
292 635 523 529 411 362 281 194 169 141 100
317 873 789 694 484 336 324 225 269 195 91
69 416 611 671 652 448 449 264 280 192 129
1 250 760 926 873 765 532 462 415 316 248 152
13 855 1481 1553 1232 834 637 632 455 363 260 181
8 860 1603 1577 1286 924 683 653 452 367 331 183
178 716 1030 912 817 613 514 435 312 255 140
172 602 815 919 750 667 589 403 357 229 61
5 735 1377 1372 1274 888 789 628 453 391 260 99
7 833 1457 1293 1373 975 784 569 475 348 271 115
182 709 856 1074 848 690 521 375 291 201 120
136 432 681 766 617 510 384 363 286 203 128
5 667 893 927 814 593 511 387 321 266 174 95
10
10
1


Difference from mass of Proton
π⁻ ϕ [°]
150
100
50
0
-50
-100
-150
0 10 20 30 40 50 60 70
π⁻ θ [°]
0.011 0.010 0.008 0.007 0.006 0.005 0.004 0.006 0.005 0.005
0.008 0.008 0.005 0.003 0.002 0.002 0.001 0.002 -0.000
0.004 0.010 0.010 0.009 0.013 0.013 0.012 0.010 0.010 0.011
0.008 0.011 0.010 0.009 0.010 0.008 0.009 0.010 0.007 0.009
0.012 0.011 0.009 0.009 0.006 0.006 0.007 0.007 0.008 0.002
0.013 0.009 0.006 0.004 0.001 0.003 0.000 -0.001 0.003
0.013 0.012 0.012 0.012 0.013 0.011 0.013 0.012 0.011
0.010 0.008 0.010 0.009 0.008 0.008 0.007 0.007 0.007 0.009
0.007 0.008 0.006 0.006 0.005 0.004 0.003 0.003 0.002 0.002
0.010 0.004 0.006 0.004 0.003 0.002 0.002 -0.001 -0.003 -0.003
0.012 0.009 0.010 0.010 0.011 0.010 0.013 0.008 0.005
0.013 0.012 0.011 0.011 0.009 0.009 0.009 0.010 0.011 0.008
0.005 0.009 0.010 0.010 0.009 0.009 0.008 0.006 0.008 0.007
-0.001 0.008 0.007 0.009 0.009 0.007 0.007 0.005 0.005 0.006
0.003 0.007 0.009 0.008 0.010 0.009 0.010 0.009 0.008 0.010
0.006 0.006 0.006 0.007 0.007 0.006 0.007 0.006 0.006 0.005
0.005 0.006 0.005 0.005 0.005 0.005 0.003 0.005 0.004 0.006
0.058 0.007 0.006 0.004 0.004 0.004 0.006 0.004 0.004 0.003
0.006 0.008 0.008 0.009 0.008 0.009 0.009 0.007 0.008 0.006
0.004 0.008 0.008 0.007 0.007 0.006 0.006 0.007 0.008 0.007
0.000 0.004 0.006 0.006 0.005 0.006 0.006 0.004 0.004 0.004
-0.002 0.002 0.006 0.005 0.006 0.005 0.005 0.004 0.004 0.004
0.005 0.011 0.012 0.012 0.012 0.013 0.011 0.011 0.011 0.008
0.007 0.009 0.010 0.009 0.007 0.008 0.007 0.008 0.008 0.011
0.05
0.04
0.03
0.02
0.01
0
# of Entries
π⁻ ϕ [°]
150
100
50
0
-50
-100
-150
0 10 20 30 40 50 60 70
π⁻ θ [°]
30 446 818 803 695 591 456 373 288 194 125
41 218 411 368 384 312 217 188 129 88
52 257 411 415 415 263 199 145 111 65
14 369 847 804 765 610 445 381 300 208 129
8 256 664 744 716 566 512 415 316 197 119
28 188 362 391 290 266 242 182 111 84
38 209 291 329 273 243 197 153 120 68
9 375 702 779 754 603 557 407 319 212 129
5 468 932 985 973 736 683 459 354 255 135
60 309 543 571 500 465 287 244 144 95
22 165 294 399 341 278 200 193 124 78
11 374 685 574 565 485 398 275 274 143 116
4 511 1002 858 856 700 522 351 315 204 154
81 425 605 582 566 439 324 267 156 137
93 492 868 858 733 556 382 276 201 139
12 749 1481 1586 1472 1140 772 552 480 332 204
13 709 1496 1623 1512 1232 876 632 503 372 239
82 466 885 872 835 624 411 370 264 154
75 408 702 865 800 581 399 327 208 125
24 717 1504 1410 1416 1220 825 616 485 306 206
14 727 1573 1524 1414 1144 804 617 441 264 176
1 82 532 834 784 746 569 409 335 235 125
95 423 578 637 550 395 298 250 140 101
45 614 1091 1021 921 729 502 403 322 195 159
10³
10²
10
1