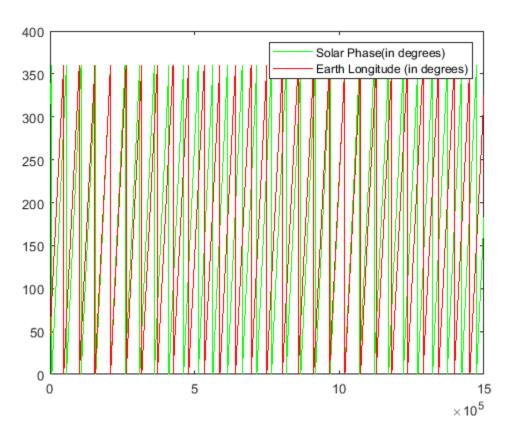
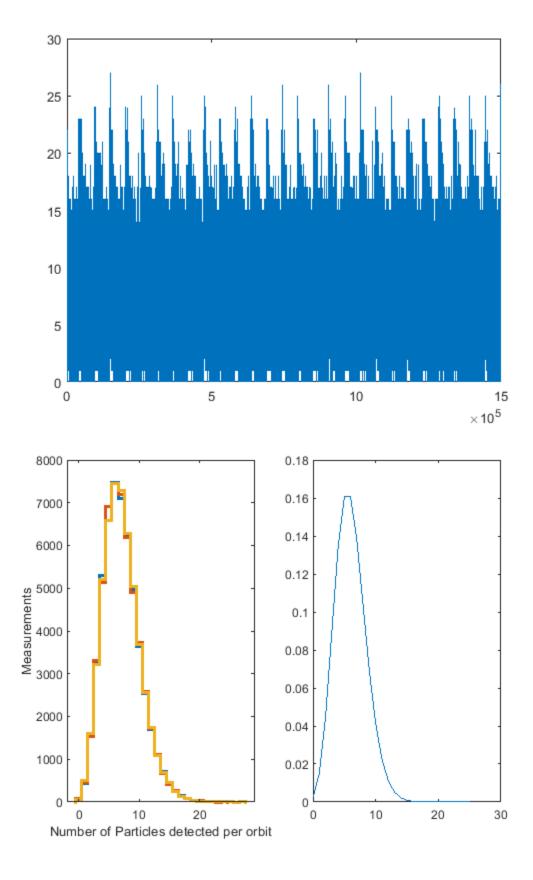
Problem 1

```
HDF5 gammaray lab4 .h5
Group '/'
    Dataset 'data'
        Size: 25920001x4
        MaxSize: 25920001x4
        Datatype:
                     H5T_IEEE_F64LE (double)
        ChunkSize: []
        Filters: none
        FillValue: 0.000000
gammarayData = 25920001 \times 4
108 ×
    9.4068
               0.0000
                          0.0000
                                    0.0000
    9.4068
               0.0000
                          0.0000
                                    0.0000
    9.4068
               0.0000
                          0.0000
                                    0.0000
    9.4068
               0.0000
                          0.0000
                                    0.0000
    9.4068
               0.0000
                          0.0000
                                    0.0000
    9.4068
               0.0000
                          0.0000
                                    0.0000
    9.4068
               0.0000
                          0.0000
                                    0.0000
    9.4068
               0.0000
                          0.0000
                                    0.0000
    9.4068
               0.0000
                          0.0000
                                    0.0000
    9.4068
               0.0000
                          0.0000
                                    0.0000
ans = 1 \times 4
   940680016
                                     45
                                                 10
                      315
```





Problem 2. HDF5 images .h5 Group '/' Dataset 'image1' Size: 200x200 MaxSize: 200x200 Datatype: H5T IEEE F64LE (double) ChunkSize: [] Filters: none FillValue: 0.000000 Dataset 'imagestack' Size: 10x200x200 MaxSize: 10x200x200 Datatype: H5T IEEE F64LE (double) ChunkSize: [] Filters: none FillValue: 0.000000 $image1 = 200 \times 200$ -1.2471 0.0973 0.3390 0.2956 1.9137 0.0763 0.0399 --0.3696 0.4855 -0.6753 -0.6463 0.8828 -0.1690 -0.4287 -0.02870.4352 0.2435 1.1049 -0.3340 0.5125 0.9015 0.9251 -0.83170.4504 1.1618 -0.8016 -0.1862 0.2093 -0.2121 0.1595 0.3908 0.3444 -0.1808 0.1337 -0.6025 -0.7623 -1.2264 0.3423 -0.0047 0.0077 1.0298 -0.2821 0.8016 0.1661 0.1519 0.2972 0.7114 -1.2684 0.4984 1.4354 9.7868 0.8268 0.7253 -0.0198 -0.6433 0.2123 -0.0471 0.4877 -0.4924 -0.7346 46.8432 0.3807 -0.1384 0.1063 0.1277 -0.1530 0.6081 0.8553 1.0913 0.4684 -0.8077 -0.3758 0.33010.3406 0.0395 -1.1181 0.4484 0.0551 -0.5322 -0.7497 -0.4394 0.6028 0.6394 --0.5163 6.5115 0.5660 -1.0731 0.3330 0.1680 0.4250 -0.2085 $0.4426 \quad -0.4367 \quad -1.1365 \quad 0.9658 \quad -0.0889 \quad 0.1585 \quad 0.4823 \quad -0.3324$ 0.7099 0.2616 -0.5295 -0.2476 0.6884 -0.3164 0.8324 0.9024 0.5792 0.8780-0.3095 -0.5256 0.1799 0.2897 -0.9380 0.2220 -0.1559 $0.2775 \quad -0.0178 \quad -0.2244 \quad -0.0722 \quad 0.5133 \quad 0.6134 \quad 0.5799 \quad -0.7677$ 0.1673 0.8466 0.1528 0.4197 0.3182 0.8617 -0.0812 0.7270-0.7416 1.0105 1.5183 -0.0902 0.3111 -0.1253 0.5771 -0.3506 0.6772 -0.5183 --1.0983 -1.7638 -1.7647 -0.2421 0.3035 -0.5266 -0.3792 0.0161-0.4476 -0.8170 0.0762 0.1885 -0.0503 -0.7787 -0.3225 -0.88010.2715 0.4851 0.1045 0.0057 -0.0127 0.2603 -0.2416 0.2738-0.9656 -0.1178 -0.2288 0.0799 0.7405 -0.7734 0.5498 0.5956 0.5589 1.2659 -

```
-0.5857 -0.1884 0.0287 -0.4258 0.1834 -0.8614 -0.4631 -0.0086
-1.5182 -0.3305 0.1750 0.7504 -0.4295 0.0758 0.5301 0.6199
-1.2248 -0.4687 0.4805 -0.4497 0.4994 -0.2266 0.6136 -0.7715 -0.5141 0.2140
                                                          -0.4362
   0.1922 0.0434 0.6634 -0.6231 -0.1846 -0.2326 -0.0393
0.2686 0.7687 0.4233 -0.0096 0.1928 -0.4970 4.5762 -0.3423
0.2951
       0.2794
               1.5323 -0.9140 0.1740 0.0877 -0.9151
1.5122 -0.7741 -0.2267 -0.7080
                                1.0087
                                         0.2825 - 0.0445 - 0.5336
-0.9362 -0.2197 0.6303
                         0.3341 -0.2082 -0.4018 -0.1620 -0.0002
0.1695 -0.1037 -1.0675 0.1209 -0.4664 -0.8571 -0.4291 0.7460
1.0979 0.7888 0.5096
 -0.4242 -0.2099 0.8631 -0.1360 0.1346 0.0751 -0.0533 -
0.2798 0.5314 0.0282 -0.9361 0.2199 0.3341 0.1229 0.0656
-0.0965 -0.9140 0.0608 -0.6662 0.0741
                                         0.6716 0.8817 -0.3023
-0.8544 -0.5465 -0.3368 0.6306
                                 0.3270 0.2846 -0.2647 -0.0410
-0.4530 -0.5057 0.8096 0.2624
                                 -0.6819 0.4611 -0.8229
                                                          0.3495
        0.6450 -0.6334 -0.1392 0.0641 -0.4554 0.7625
-0.3836 -0.5120
0.1270
                                                          -1.3282
0.1676 -0.3836
  0.1378 \quad -0.1211 \quad 0.2533 \quad 0.3730 \quad -0.3592 \quad -0.3064 \quad -0.0768 \quad 0.5851
0.1880 0.1921
                0.8405
                        0.8585 -0.3030
                                         0.5745
                                                 0.6001
-0.0601 0.9302 0.2435 -0.6241 -0.4324 0.2893 -0.3138 -0.5603
0.2279 -0.3779 0.9596
                        1.1004 0.7330 0.0853
                                                 0.1172 -0.9503
-0.5754 -0.6358 0.3927 -0.8233 0.1609 0.6777 -0.4656 0.2378
0.1546 - 0.2516 - 0.7546
  0.2319 0.9728 -0.5260 -0.2445 0.0689 0.5585 -0.2152
0.0923 \quad -0.3030 \quad 0.0400 \quad -1.3775 \quad 0.3232 \quad 0.5953 \quad 0.3503 \quad 0.1484
0.9375 \quad -1.1293 \quad -0.3232 \quad -0.2984 \quad 0.2727 \quad -0.2962
                                                 0.7725 0.1007
        0.5648 -0.0804 -0.0078 -1.0353 -0.1982 0.5392 -0.2923
-0.5446
        0.1021
                0.0914 -0.0010 -0.5705 -0.3044
                                                  0.4376 0.1096
-0.5205
        0.0281 -0.3868
-0.0739
                       0.7643 -0.3801 0.6359 -1.1244
                                                           0.0202
-0.4369 \quad -0.0758 \quad -0.3479
```

