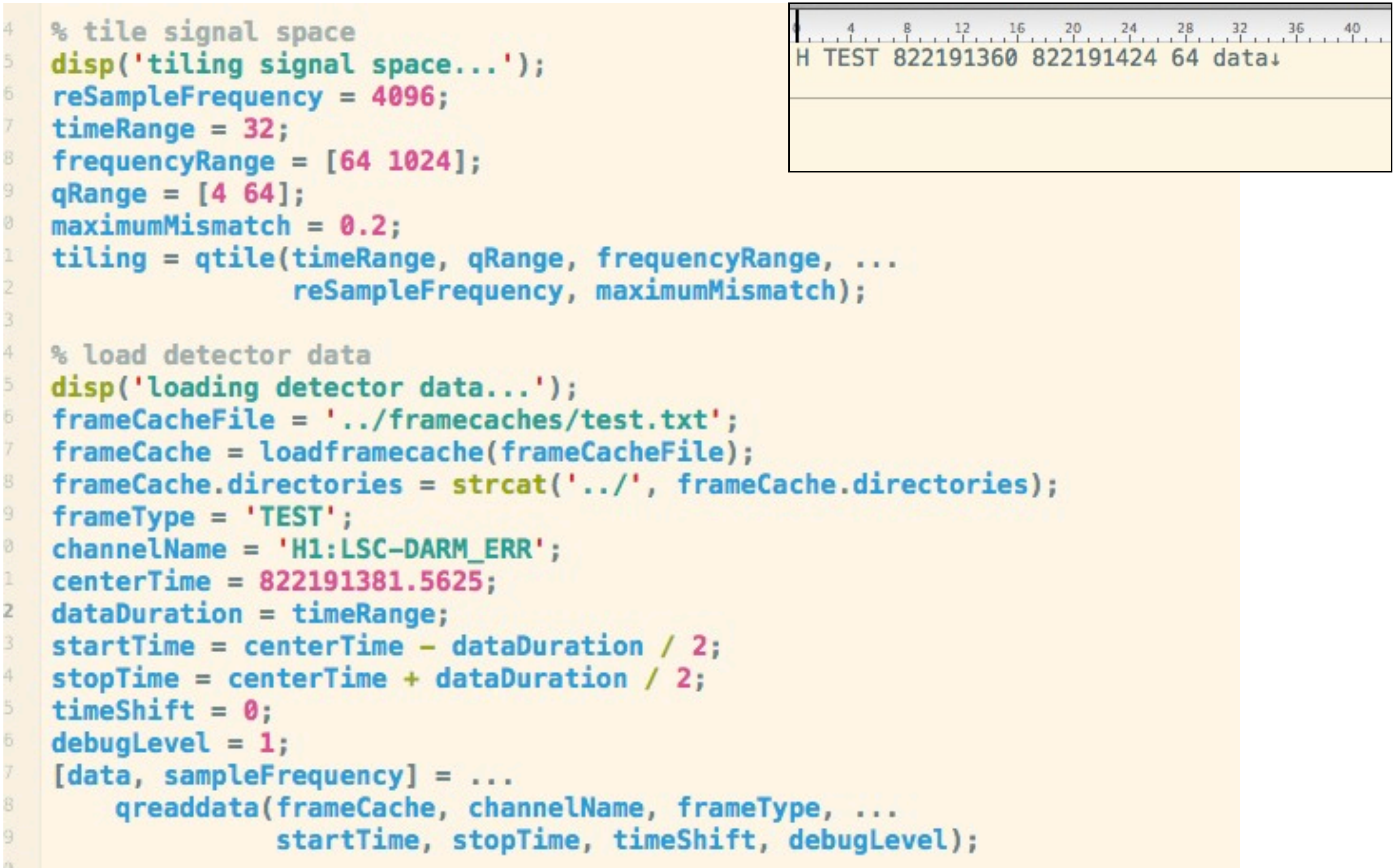
グリッチモニタ

Q-pipeline(Omega, X)

framecache



```
H TEST 822191360 822191424 64 data↓
```

```
% tile signal space
disp('tiling signal space...');
reSampleFrequency = 4096;
timeRange = 32;
frequencyRange = [64 1024];
qRange = [4 64];
maximumMismatch = 0.2;
tiling = qtile(timeRange, qRange, frequencyRange, ...
               reSampleFrequency, maximumMismatch);

% load detector data
disp('loading detector data...');
frameCacheFile = '../framecaches/test.txt';
frameCache = loadframecache(frameCacheFile);
frameCache.directories = strcat('../', frameCache.directories);
frameType = 'TEST';
channelName = 'H1:LSC-DARM_ERR';
centerTime = 822191381.5625;
dataDuration = timeRange;
startTime = centerTime - dataDuration / 2;
stopTime = centerTime + dataDuration / 2;
timeShift = 0;
debugLevel = 1;
[data, sampleFrequency] = ...
    qreaddata(frameCache, channelName, frameType, ...
              startTime, stopTime, timeShift, debugLevel);
```

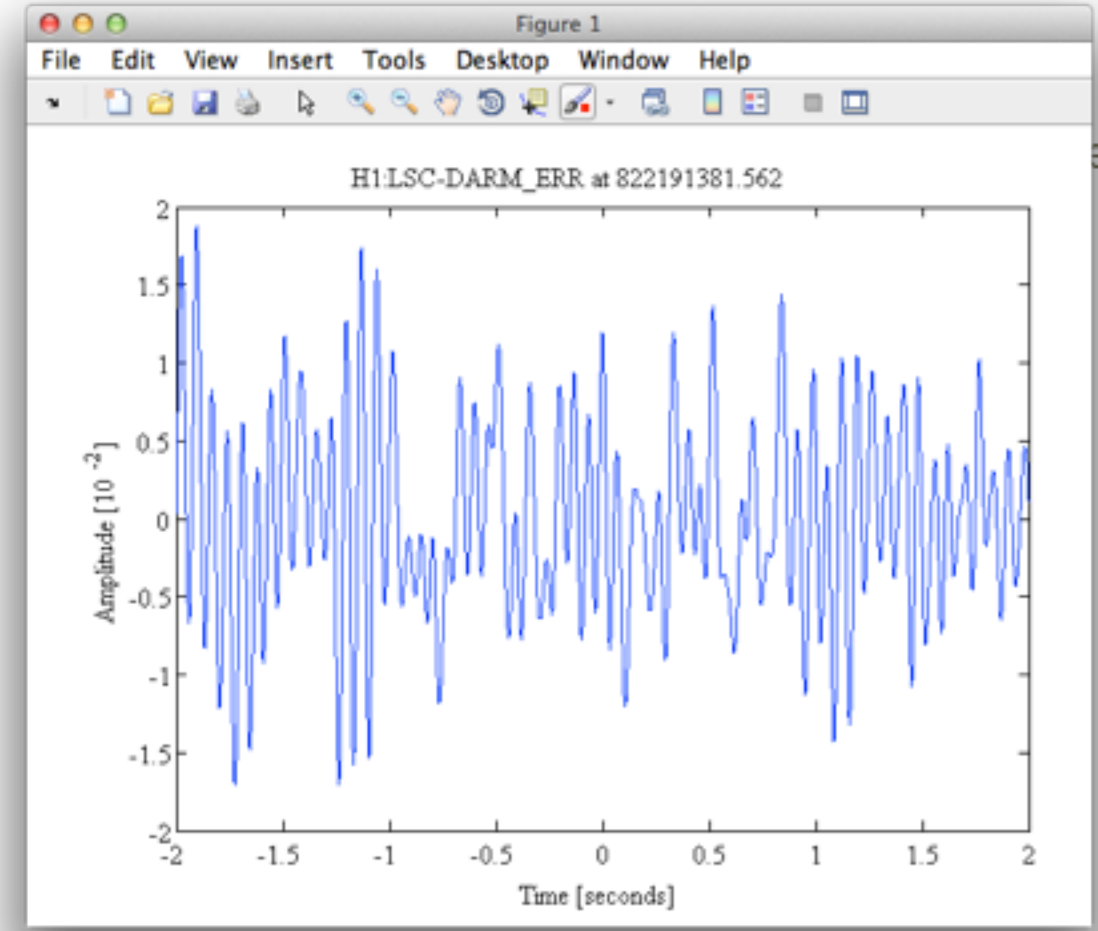


Figure 1
File Edit View Insert Tools Desktop Window Help
H1:LSC-DARM_ERR at 822191381.562
Amplitude [10 -2]
2
1.5
1
0.5
0
-0.5
-1
-1.5
-2
-2 -1.5 -1 -0.5 0 0.5 1 1.5 2
Time [seconds]

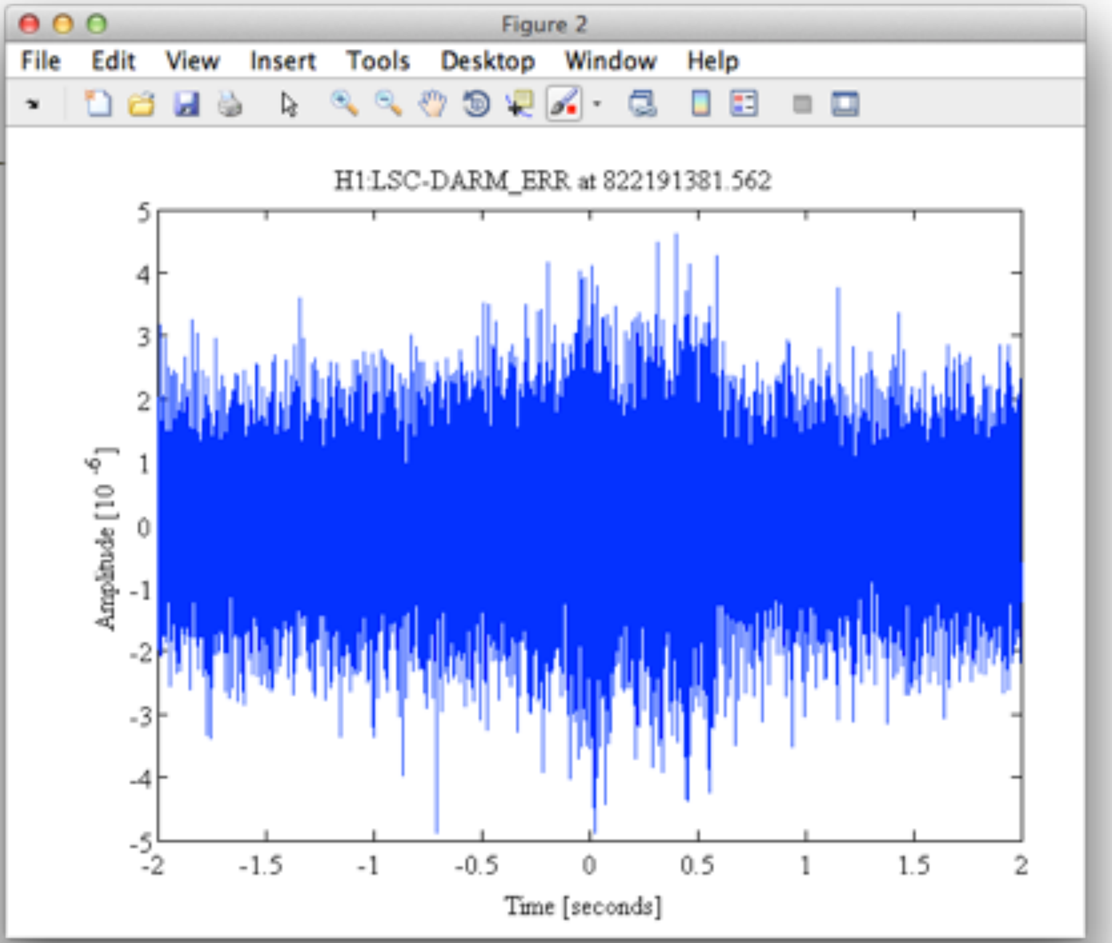


Figure 2
File Edit View Insert Tools Desktop Window Help
H1:LSC-DARM_ERR at 822191381.562
Amplitude [10 -6]
5
4
3
2
1
0
-1
-2
-3
-4
-5
-2 -1.5 -1 -0.5 0 0.5 1 1.5 2
Time [seconds]

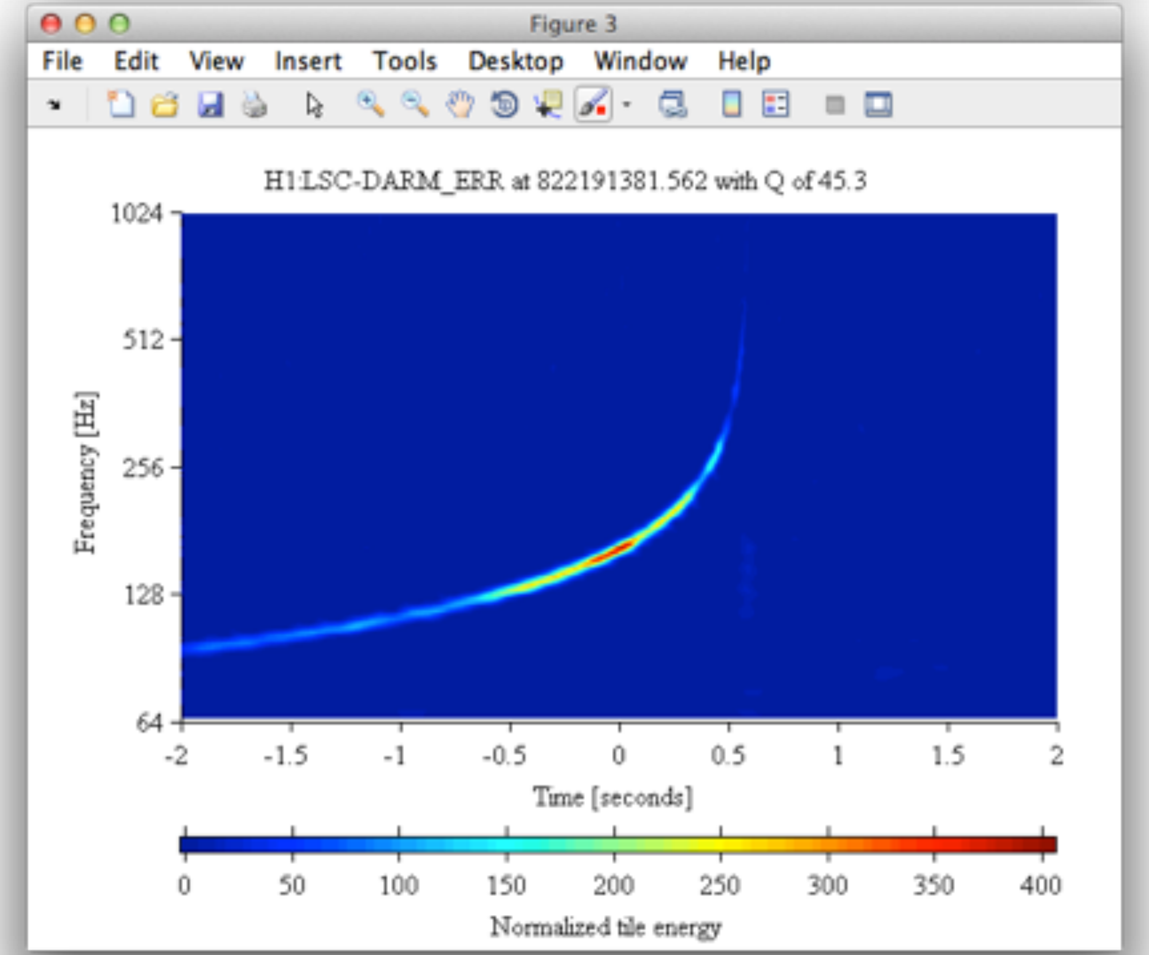


Figure 3
File Edit View Insert Tools Desktop Window Help
H1:LSC-DARM_ERR at 822191381.562 with Q of 45.3
Frequency [Hz]
1024
512
256
128
64
-2 -1.5 -1 -0.5 0 0.5 1 1.5 2
Time [seconds]
0 50 100 150 200 250 300 350 400
Normalized tile energy

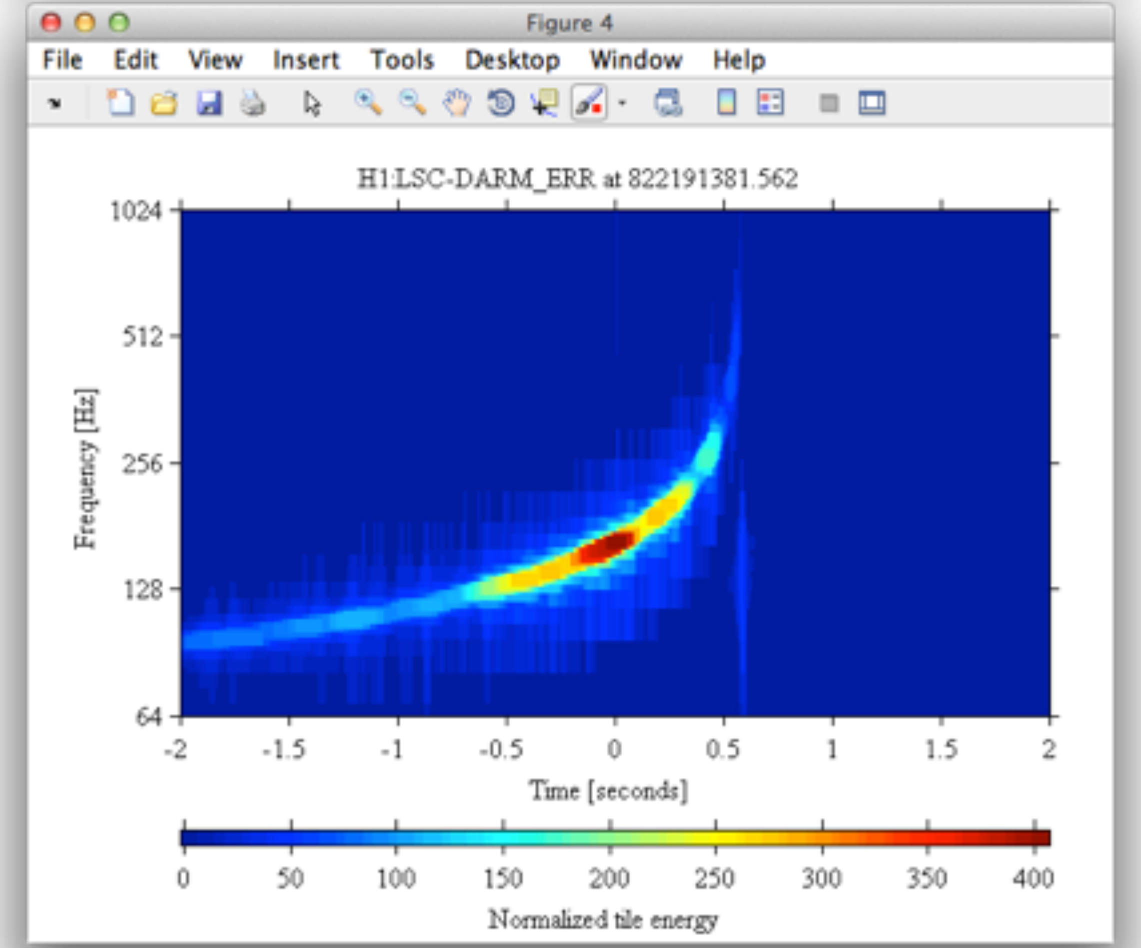


Figure 4
File Edit View Insert Tools Desktop Window Help
H1:LSC-DARM_ERR at 822191381.562
Frequency [Hz]
1024
512
256
128
64
-2 -1.5 -1 -0.5 0 0.5 1 1.5 2
Time [seconds]
0 50 100 150 200 250 300 350 400
Normalized tile energy

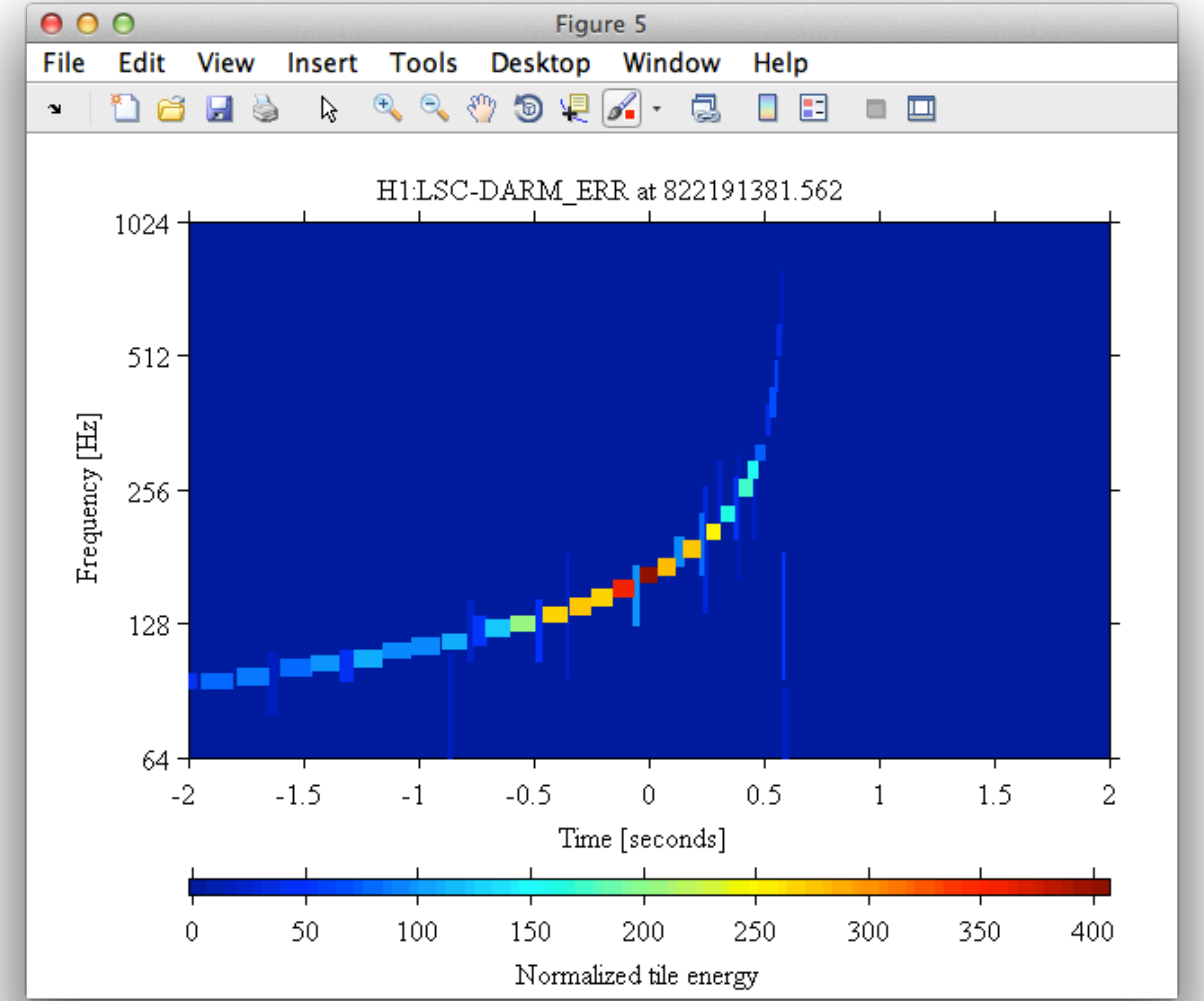
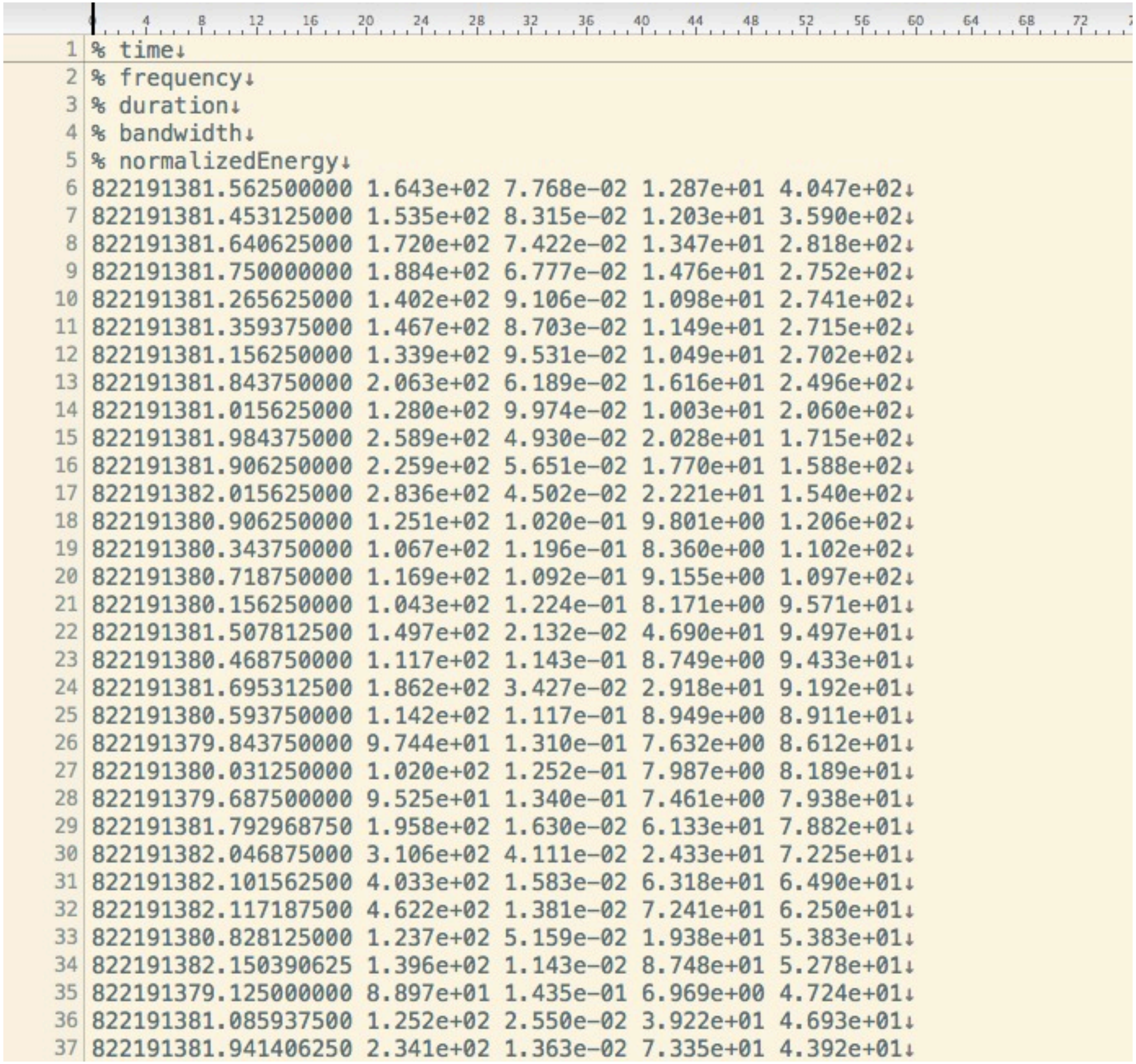


Figure 5
File
Edit
View
Insert
Tools
Desktop
Window
Help
H1:LSC-DARM_ERR at 822191381.562
Frequency [Hz]
1024
512
256
128
64
-2
-1.5
-1
-0.5
0
0.5
1
1.5
2
Time [seconds]
0
50
100
150
200
250
300
350
400
Normalized tile energy



```
% time
% frequency
% duration
% bandwidth
% normalizedEnergy
822191381.562500000 1.643e+02 7.768e-02 1.287e+01 4.047e+02
822191381.453125000 1.535e+02 8.315e-02 1.203e+01 3.590e+02
822191381.640625000 1.720e+02 7.422e-02 1.347e+01 2.818e+02
822191381.750000000 1.884e+02 6.777e-02 1.476e+01 2.752e+02
822191381.265625000 1.402e+02 9.106e-02 1.098e+01 2.741e+02
822191381.359375000 1.467e+02 8.703e-02 1.149e+01 2.715e+02
822191381.156250000 1.339e+02 9.531e-02 1.049e+01 2.702e+02
822191381.843750000 2.063e+02 6.189e-02 1.616e+01 2.496e+02
822191381.015625000 1.280e+02 9.974e-02 1.003e+01 2.060e+02
822191381.984375000 2.589e+02 4.930e-02 2.028e+01 1.715e+02
822191381.906250000 2.259e+02 5.651e-02 1.770e+01 1.588e+02
822191382.015625000 2.836e+02 4.502e-02 2.221e+01 1.540e+02
822191380.906250000 1.251e+02 1.020e-01 9.801e+00 1.206e+02
822191380.343750000 1.067e+02 1.196e-01 8.360e+00 1.102e+02
822191380.718750000 1.169e+02 1.092e-01 9.155e+00 1.097e+02
822191380.156250000 1.043e+02 1.224e-01 8.171e+00 9.571e+01
822191381.507812500 1.497e+02 2.132e-02 4.690e+01 9.497e+01
822191380.468750000 1.117e+02 1.143e-01 8.749e+00 9.433e+01
822191381.695312500 1.862e+02 3.427e-02 2.918e+01 9.192e+01
822191380.593750000 1.142e+02 1.117e-01 8.949e+00 8.911e+01
822191379.843750000 9.744e+01 1.310e-01 7.632e+00 8.612e+01
822191380.031250000 1.020e+02 1.252e-01 7.987e+00 8.189e+01
822191379.687500000 9.525e+01 1.340e-01 7.461e+00 7.938e+01
822191381.792968750 1.958e+02 1.630e-02 6.133e+01 7.882e+01
822191382.046875000 3.106e+02 4.111e-02 2.433e+01 7.225e+01
822191382.101562500 4.033e+02 1.583e-02 6.318e+01 6.490e+01
822191382.117187500 4.622e+02 1.381e-02 7.241e+01 6.250e+01
822191380.828125000 1.237e+02 5.159e-02 1.938e+01 5.383e+01
822191382.150390625 1.396e+02 1.143e-02 8.748e+01 5.278e+01
822191379.125000000 8.897e+01 1.435e-01 6.969e+00 4.724e+01
822191381.085937500 1.252e+02 2.550e-02 3.922e+01 4.693e+01
822191381.941406250 2.341e+02 1.363e-02 7.335e+01 4.392e+01
```