



## Huge MTF error for sample data

Sat, 2018-12-01 22:22 — nihy

Hi, I am a new user of FindDQE. When I was running sample data, I found a huge difference of MTF compared to provided result. When I was testing DE12, it even gave a DQE near 3.0, so I would like to ask what can be the source of this error? The parameter I input was the same to the .com file provided.

Thanks in advance.

Haoyang



### THE EXPOSURE YOU ENTERED

niko - 1 Dec 2018 - 22:24

The exposure you entered could be incorrect. How did you calibrate the exposure?



### AS IN YOUR SCRIPT, I CHOSE

nihy - 1 Dec 2018 - 23:09

As in your script, I chose total dose(2) and input 52.8 for total electron dose/pixel.

The following is a copy of my input in bash. What puzzles me is in the reference paper, it gives that DE12 data collection with 13 eps and 25 frames per second, so I wonders how 52.8 total dose/pixel comes from.

You can input either the counts/electron (gain conversion factor) or the total electron dose/pixel.

Enter 1 to input counts/electron, 2 for total dose/pixel

```
2
2
```

Enter total electron dose/pixel

```
52.8
52.7999992
```

Enter counts multiplier (usually 1).

```
1
1.00000000
```

Enter number of images

(usually 1; 2 if also giving flat field image)

```
1
1
```

Input image with pointer silhouette

```
DE12-200kv-50e-13eps.mrc
DE12-200kv-50e-13eps.mrc
```

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Source URL: <http://grigoriefflab.janelia.org/node/6034>