Pre-processing of dataset from Titan II

Log into **cbi-gateway-01** to access the microscope and transfer the data to **gateway** or **storage**

```
ssh <login>@cbi-gateway-01
ls /mnt/titan2/offloaddata/TemScripting/EF-Falcon/<dataset>
rsync -avz --progress /mnt/titan2/offloaddata/TemScripting/EF-
Falcon/<dataset> /mnt/storage/teams/lamour-ruff/Top2-G4/<dataset>
```

Path to gateway as seen from cbi-gateway-01 :

```
/mnt/zfspool/teams/
```

Log into **cbi-compute-01** and transfer the scripts

```
eer2tif_parallel_loop.py
```

,

```
eer2tif_parallel.py
```

and

```
eer2tif.py
```

in your **home**

```
ssh <login>@cbi-compute-01
module load relion
cd /mnt/storage/teams/lamour-ruff/<project>/<dataset>/ #go to the folder
with the dataset
module load python
python ~/eer2tif_parallel.py
```

Warning : conversion of eer to tiff file will show error this message :

```
TIFFReadDirectory: Warning, Unknown field with tag 65002 (0xfdea)
encountered.
```

load relion and start relion relion& #start relion in the folder with movies

Relion/Import *.tif , specify pixel size, voltage and run

estimate the gain with at least 200 movies relion_estimate_gain –i Import/job001/movies.star –j 8 –o estimated_gain.mrc

Relion/Motion correction , specify dose per frame, number of patches 5x5m, provide gain file, 20 threads

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