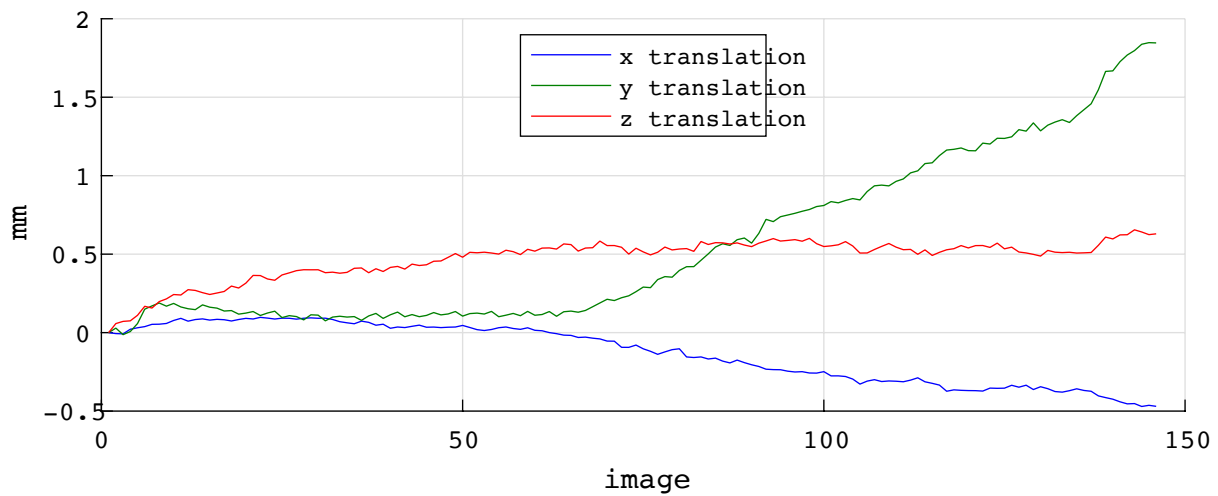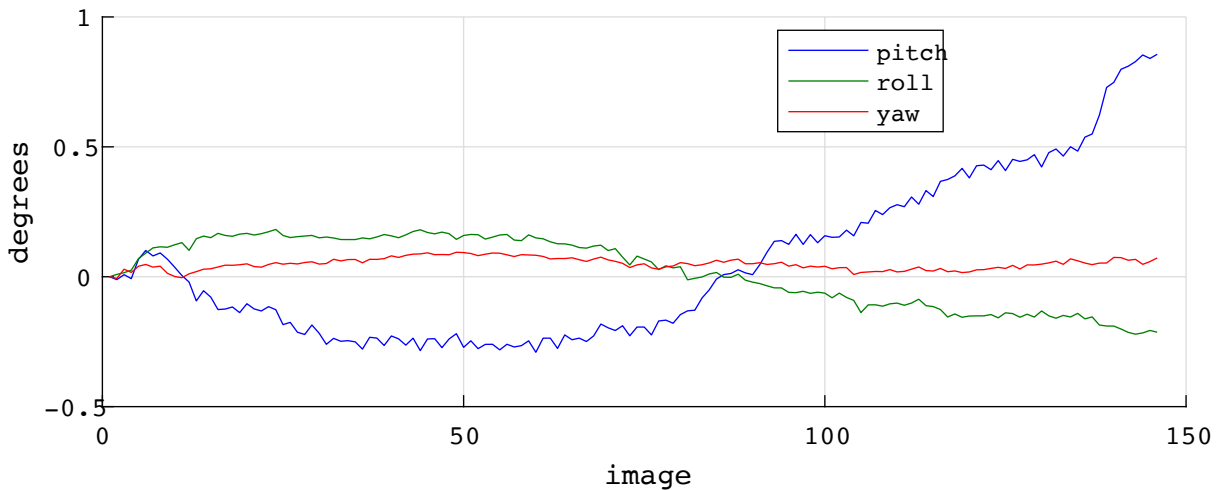# Image realignment

```
 1    /Users/Rachel/IPN-MRI-Bootcamp/Images/IPNdemo2016-02/CRT/aEP-CRT-00001.ni
 2    /Users/Rachel/IPN-MRI-Bootcamp/Images/IPNdemo2016-02/CRT/aEP-CRT-00001.ni
 3    /Users/Rachel/IPN-MRI-Bootcamp/Images/IPNdemo2016-02/CRT/aEP-CRT-00001.ni
 4    /Users/Rachel/IPN-MRI-Bootcamp/Images/IPNdemo2016-02/CRT/aEP-CRT-00001.ni
 5    /Users/Rachel/IPN-MRI-Bootcamp/Images/IPNdemo2016-02/CRT/aEP-CRT-00001.ni
 6    /Users/Rachel/IPN-MRI-Bootcamp/Images/IPNdemo2016-02/CRT/aEP-CRT-00001.ni
 7    /Users/Rachel/IPN-MRI-Bootcamp/Images/IPNdemo2016-02/CRT/aEP-CRT-00001.ni
 8    /Users/Rachel/IPN-MRI-Bootcamp/Images/IPNdemo2016-02/CRT/aEP-CRT-00001.ni
 9    /Users/Rachel/IPN-MRI-Bootcamp/Images/IPNdemo2016-02/CRT/aEP-CRT-00001.ni
10    /Users/Rachel/IPN-MRI-Bootcamp/Images/IPNdemo2016-02/CRT/aEP-CRT-00001.ni
11    /Users/Rachel/IPN-MRI-Bootcamp/Images/IPNdemo2016-02/CRT/aEP-CRT-00001.ni
12    /Users/Rachel/IPN-MRI-Bootcamp/Images/IPNdemo2016-02/CRT/aEP-CRT-00001.ni
............... etc
```
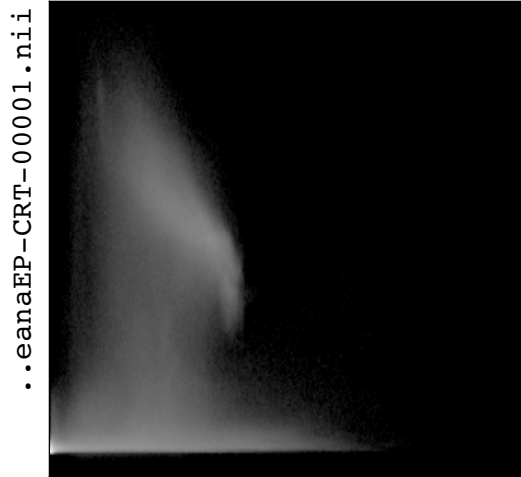
translation

rotation

Normalised Mutual Information Coregistration

X1 = −3.000*X +0.001*Y −0.016*Z +177.429

Y1 = −0.001*X +2.972*Y +0.412*Z +29.727

Z1 = −0.016*X −0.412*Y +2.972*Z +76.796

Original Joint Histogram

..ens_MPRAGE−00001.nii

Final Joint Histogram

..ens_MPRAGE−00001.nii