

M20171031\_024018\_MAI\_2

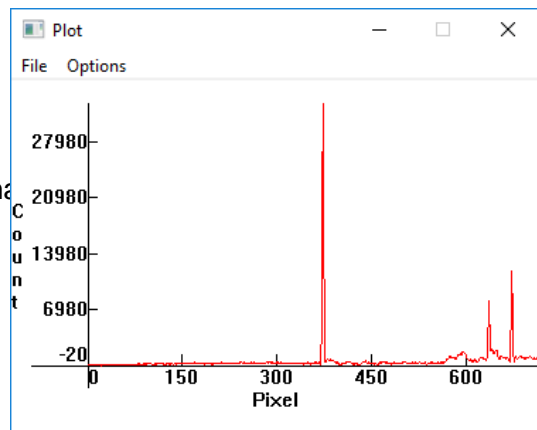


VirtualDub Export BMP: m\_0...m\_145.BMP

```
>loadbmp24bw m_50
>RUN M_BACK m_ back 40 0.025
>visu 50 0
>savejpg back 2
>RUN M_DARK m_ back mb 50 95
>add2 mb 95
>visu 1000 -100
>savejpg madd95 2
```

Transformation to orthographic projection with ImageMagick

```
>load d11_mb1
>register d11_mb r 95
>add2 r 80 (also 70, 90)
>save addr80
>visu 2000 0
>savejpg addr80 2
>l_add 214 222
>l_plot
```



x-values	y-values	y-resid.	x-resid.	dy/dx
373.3960	0.0000	-0.0191	-0.0097	1.9633
637.0520	517.8000	0.1574	0.0802	1.9633
673.4690	589.0000	-0.1383	-0.0705	1.9633

X (Pixels)	Y (Wavelength)
373.396	0.00
637.052	517.8
673.469	589

Shift only  
 Degree 1  
 Degree 2  
 Degree 3  
 Degree 4

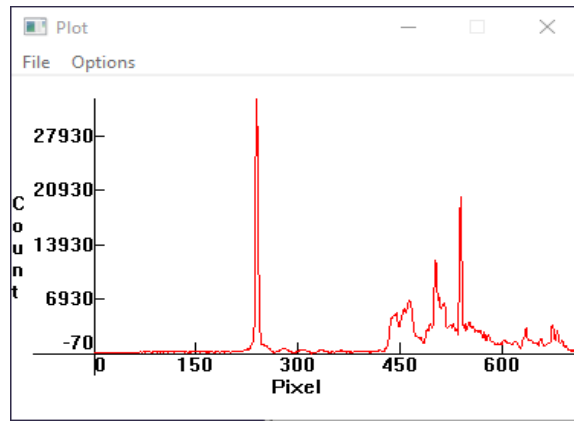
Compute

a0 -733.052  
a1 1.96325

```

Start from later field
>load d11_mb61
>reindex d11_mb i 61 1 35
>load i1
>register i jr 35
>add2 jr 35
>visu 1000 0
>save addjr35
>savejpg addjr35 2
>l_add 121 129
>l_plot

```



Residuals

x-values	y-values	y-resid.	x-resid.	dy/dx
239.7570	0.0000	-0.0414	-0.0211	1.9633
503.3090	517.8000	0.3394	0.1729	1.9633
539.9000	589.0000	-0.2980	-0.1518	1.9633

X (Pixels)	Y (Wavelength)
239.757	0.00
503.309	517.8
539.900	589

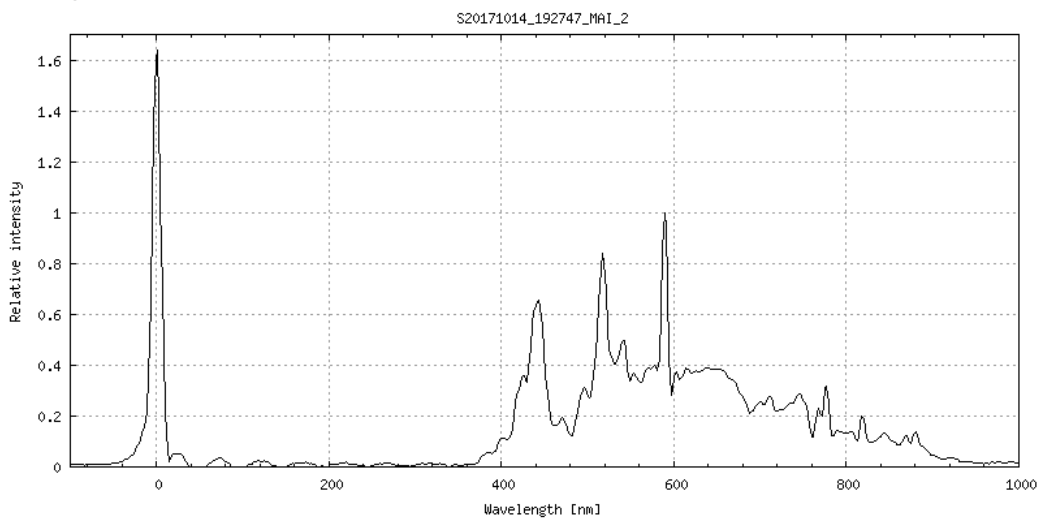
Polynomial  
 Shift only  
 Degree 1  
 Degree 2  
 Degree 3  
 Degree 4

Compute

a0 -470.662

a1 1.96325

Full spectrum



1<sup>st</sup> order spectrum (reduced intensity in the long wavelength range, partly out of field of view:

