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`%software Image Normalisation:`

```
clc
clear
close all
```

```
b_test = true; % true or false
```

```
path = '../'; % go up one level
```

```
% -----
```

```
data_images = {};
data_images_normalized = {};
numerators = {};
dc_images = {};
fv_images = {};
```

```
disp('Data Loading...');
% retrieve data file names
title = 'Select Data ...';
[data_filenames, data_path_name] = getfile(title, path);
% load data files
data_images = load_fits(data_filenames, data_path_name);
```

```
% retrieve dc file names (DF)
title = 'Select DC ...';
[dc_filenames, dc_path_name] = getfile(title, path);
dc_images = load_fits(dc_filenames, dc_path_name);
```

```
% retrieve fv file names (OB)
title = 'Select FV ...';
[fv_filenames, fv_path_name] = getfile(title, path);
fv_images = load_fits(fv_filenames, fv_path_name);
```

```
fv_mean = image_mean(fv_images);
dc_mean = image_mean(dc_images);
```

```
Data Loading...
```

normalisation

```
%sustraction du bruit de fond
```

```

disp('Numerators and Denominator Calculation...');
denominator = fv_mean - dc_mean;
numerators = calculate_numerator(data_images, dc_mean);

disp('Normalisation...');
data_images_normalized = normalized_images(numerators, denominator);

disp('Flipping...');
data_images_normalized = flip_images(data_images_normalized);

if b_test

```

Test visualisation

```

figure, %figure 1
subplot(1,2,1), imshow(FVm) %images du DC, FV, Echantillon
title('FVm')

subplot(1,2,2), imshow(FVc)
title('FVc')

figure,
subplot(1,3,1), imshow(I5r) %file name%%%
title('echantillon 60 deg')

subplot(1,3,2), imshow(I10r) %file name%%%
title('echantillon 60 deg')

subplot(1,3,3), imshow(I23r) %file name%%%
title('echantillon 60 deg')

%subplot(2,3,4), imshow(Ic) %file name%%%
%title('echantillon 70 deg')
%subplot(2,3,5), imshow(In) %file name%%%
%title('echantillon 90 deg')

Undefined function or variable 'FVm'.

Error in Normalization (line 55)
    subplot(1,2,1), imshow(FVm) %images du DC, FV, Echantillon

end

Numerators and Denominator Calculation...
Normalisation...
Flipping...

```

saving files matrix

```

disp('Data Saving...');

save('data_images_normalized.mat', 'data_images_normalized');

```

