FIB Serial Section of Ti-62222

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| **Step** | **Name** | **Purpose** | **Sensitive to spatial resolution** |
| 1 | Reference | Reference image |  |
| 2 | Convert Image Type | This step allows to convert the image into float and get a better precision for Gaussian Filter step to come up |  |
| 3 | FFT Filter | This step allows to remove curtaining artefacts by using a masking procedure un the Fourier space |  |
| 4 | Gaussian Filter | This step allows to remove high frequency signal | Yes |
| 5 | Opening | This step is used here to remove the Beta phase and estimate an image of the background. The size of the opening window must be larger than objects to remove. | Yes |
| 6 | Gaussian filter | This step allows to get a smoother background intensity | Yes |
| 7 | Reference Change | Change to Gaussian filter from step 4 |  |
| 8 | Subtract Image | Subtract the estimated background from the filtered image from step 4 |  |
| 9 | Adaptive Thresholding | Despite the background correction the contrast of the Beta phase is still varying so we need to use an adaptive thresholding method to binarize it |  |
| 10 | NOT | This step allows to get the Alpha phase from the Beta phase |  |