
Subject: filtering images in the fourier domain

Posted by [dino.nicola](#) on Mon, 17 Nov 2003 14:06:22 GMT

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is anybody out there that can tell me how to filter row by row or column by column an image (actually one radiographic projection)

indeed I am little confused with the FFT call in IDL

in matlab the commands are :

% matalb working example ... column by column ... H is my filter

```
proj = fft(proj);      % p holds fft of projections
for ic = 1:size(proj,2)
    % filter column by column i.e. row sino by row sino
    proj(:,ic) = proj(:,ic).*H; % frequency domain filtering
end
proj = real(ifft(proj)); % p is the filtered projections
```

thank you in advance for your attention
