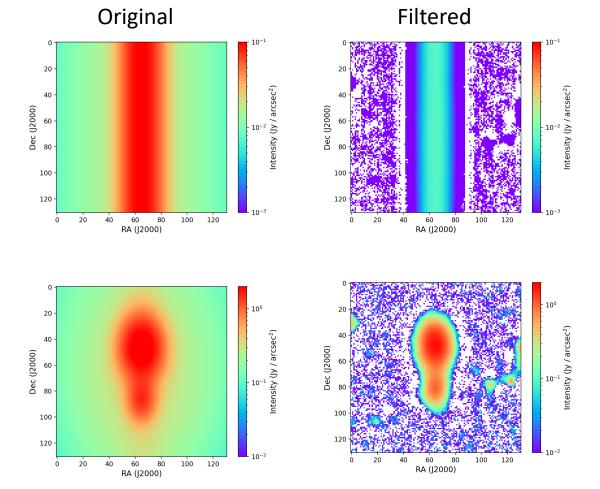
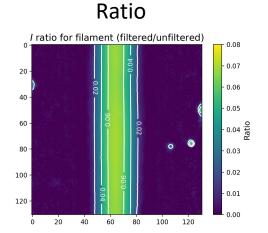
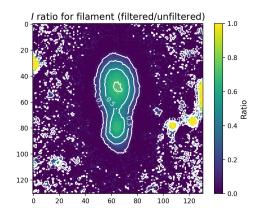
Loss of large scales in SCUBA-2 Quick update on FFT transform tests

Lapo Fanciullo, Kate Pattle, Janik Karoly Bistro DR Meeting, Nov 21 2023

Recap: filament and filament + clumps







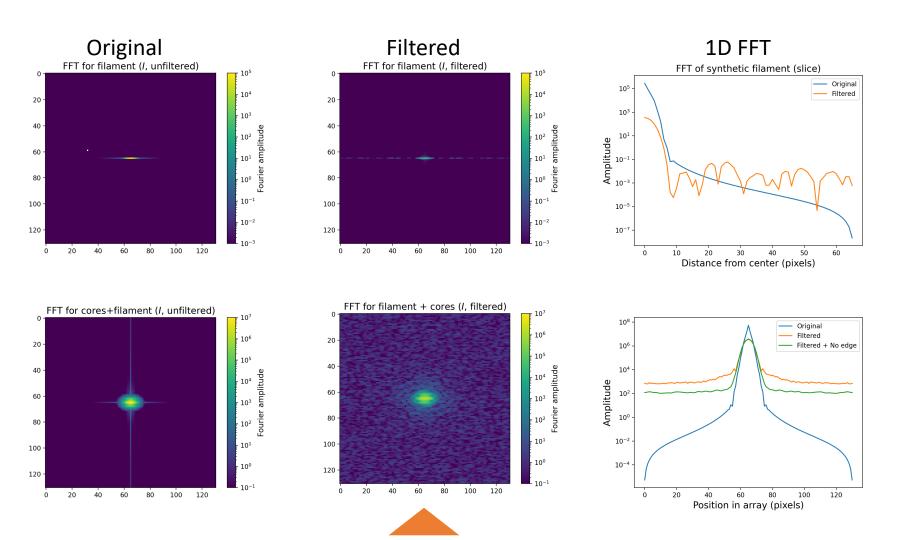
Significant loss of flux

- >90% in filament
- >= 30% in filament+clumps

Fourier transforms:

- "Spread" of power away from center
- Real or noise effect?
- Dealing with Serpens features:
 - Subtract features after filtering (missed last time!)
 - Window function

Recap: filament and filament + clumps



Significant loss of flux

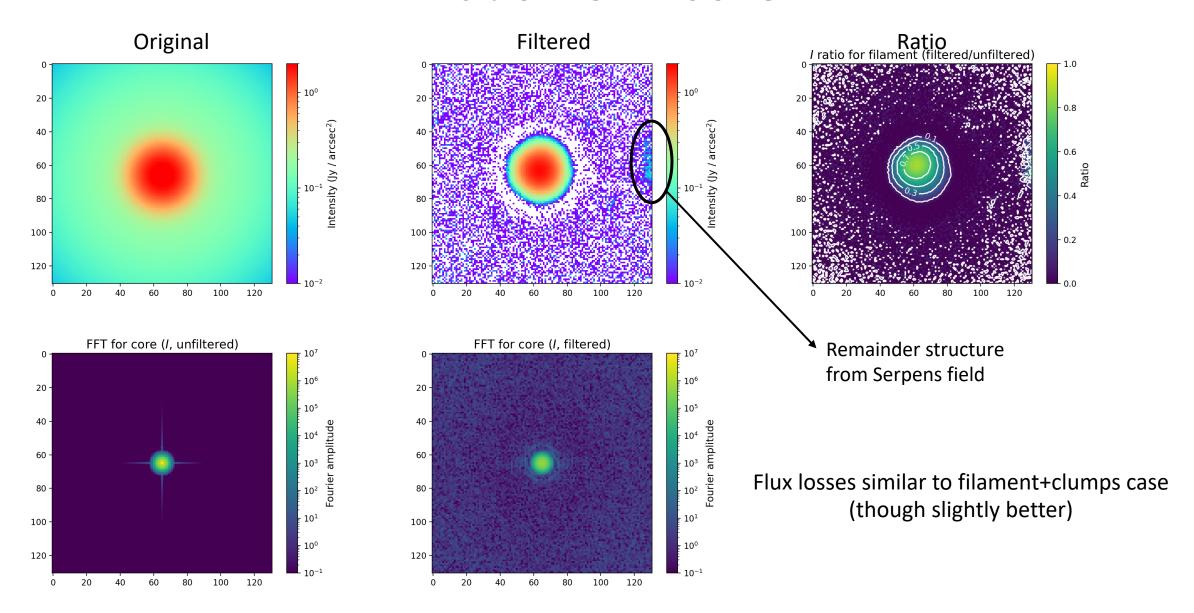
- >90% in filament
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Fourier transforms:

- "Spread" of power away from center
- Real or noise effect?
- Dealing with Serpens features:
 - Subtract features after filtering (missed last time!)
 - Window function

"Homemade" window function applied

What's new: core



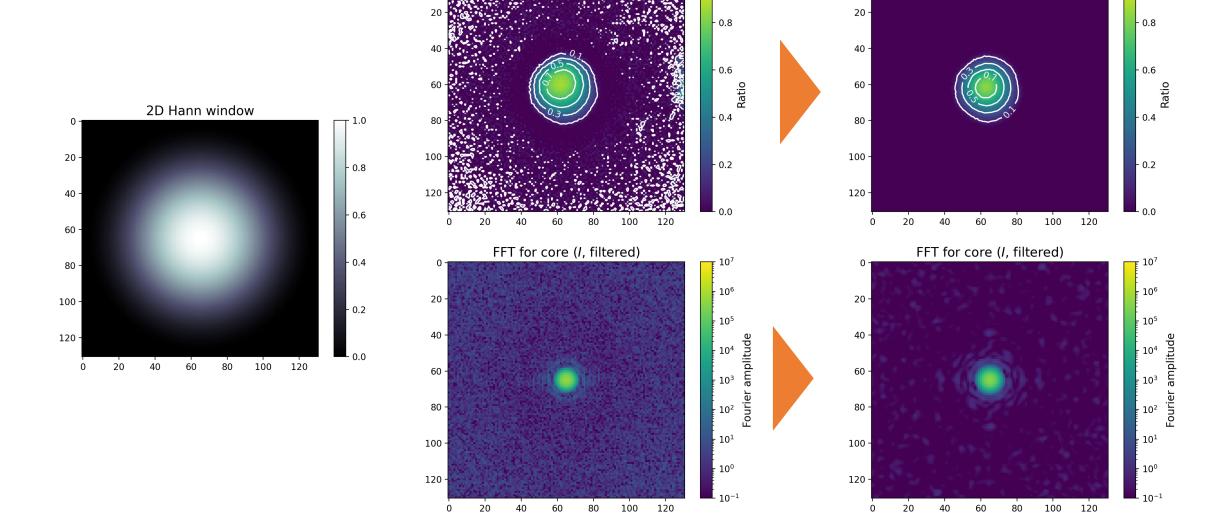
Hann window function

T 1.0

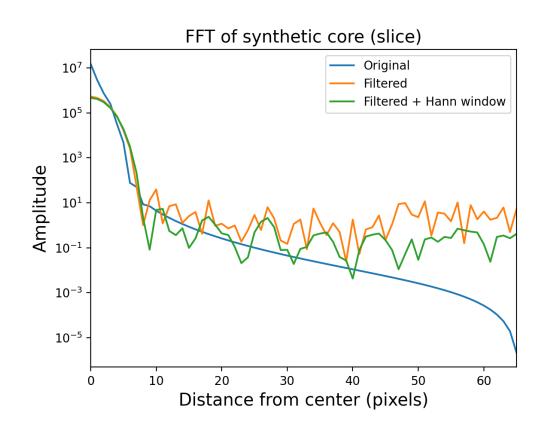
// ratio for core (filtered/unfiltered)

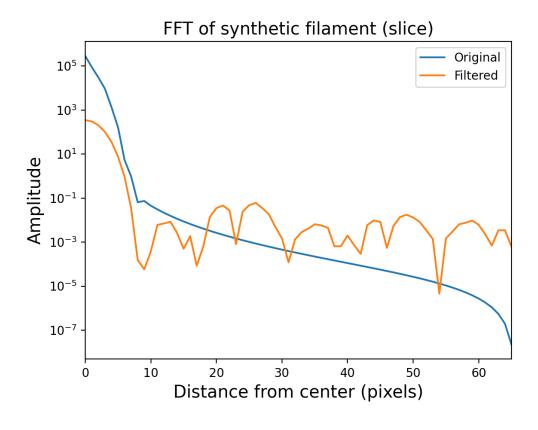
core (filtered/unfiltered)

I ratio for



Radial distribution of FFT (slice)





Radial distribution of FFT (slice)

Loss of power at center (large scales)

