

For me to do:

- Check out the physics of x-rays in more detail

①

Today. Great review of Fourier analysis

I would like to know more about the fast fourier transform and how it works.

②

③ I still think FT's in general are weird. I understand how to use them, but not conceptually how the math works.

④ Fourier analysis from a whole new perspective. No matter how many times you read about F.T. it's always a new topic.

⑤

Enjoyed the more in depth discussion of FT's. The main thing I didn't quite get was why sampling creates replicas of $F(u)$ in Fourier space.

⑥ I would like more clarification on the limits of Fourier Analysis.

⑦ I was interested by some of the nuances discussed in Fourier Analysis; sampling that was discussed.

→ would like

⑧ Wasn't anything that was really complicated as it was mainly just a review of what we had learned previously.

PROJECTILES. 10A

⑨ It was ~~It's always~~ nice hearing Dr. Dobbin's explanation of the Fourier transform + sampling theorem!

⑩

I thought the class was well done today.

no need for big questions so far.

- Nyquist sampling theorem: how exactly can you throw away ~~99%~~
something as high as 99% & still get back the image. a derivation or proof would be useful.

~~In particular what kind of band~~

- (12) FT theory says functions must tend $\rightarrow 0$ at infinity, but how can we handle FT of images then? they do not

- (13) The Fourier transform: constraints on functions?

This is something new to me ...
~~or~~

- (14) Thoughts: This class looks great.

Suggestions:

- move faster on class?
- Cover more contents?