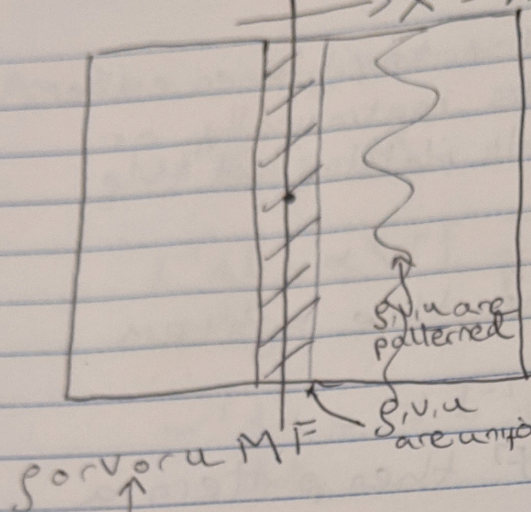
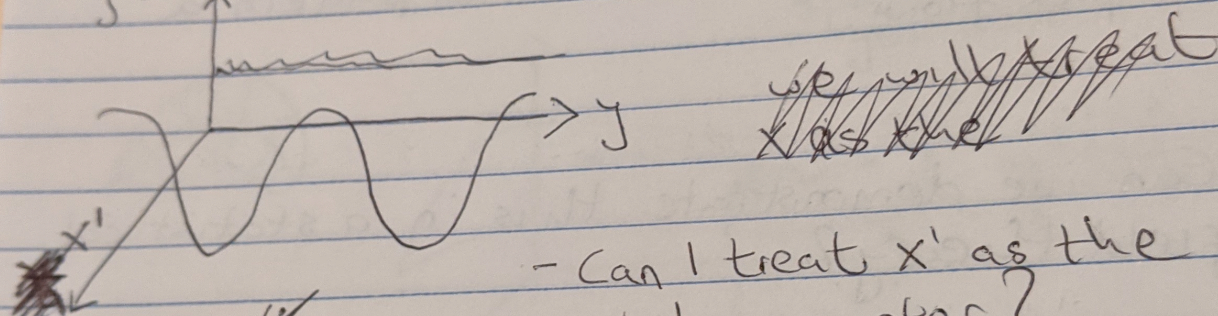


Spatial Patterning
 $X' = X - vt$ speed of MF
 \Rightarrow we are in ref frame of furrow.



We have the following field measurement.

- 1) g , density
- 2) v , velocity
- 3) u , fate.

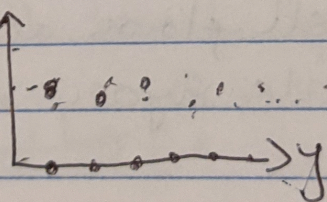


- Can I treat X' as the control parameter?

- Is the system invariant, statistically, in $X' = X - vt$ ref. frame?

consider

$u(y) | X'$



each time pt gives a different set of u s and v s.

- Two ways to look at the data.

- 1) PCA
- 2) Fourier

Option 1: PCA

@ each $X' \rightarrow$ PCA of $\{u(y)\}$ \rightarrow which pts. along y covary

- I expect that at $X' \approx 0$ you will have an evale spectrum with no gap \rightarrow at some X' I expect a gap to open up