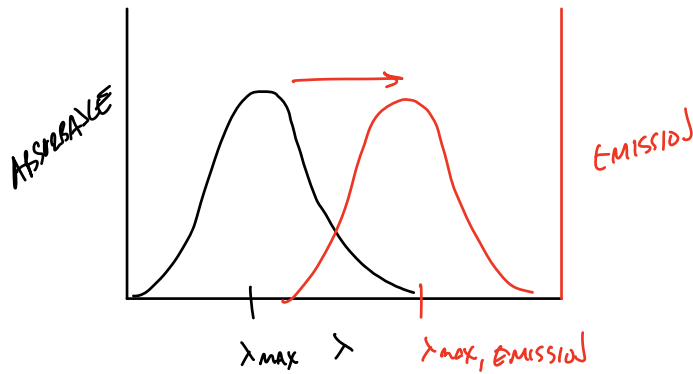
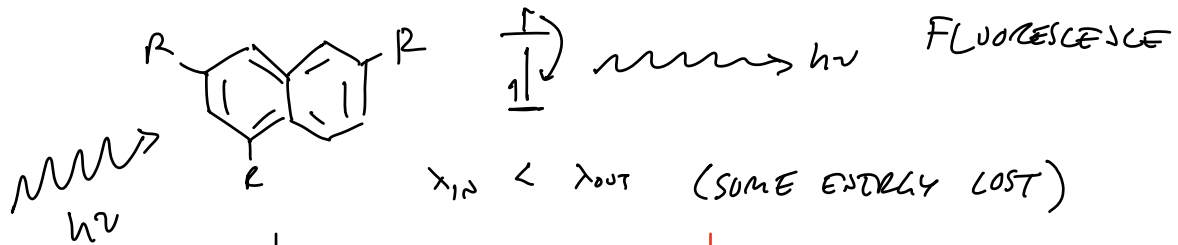


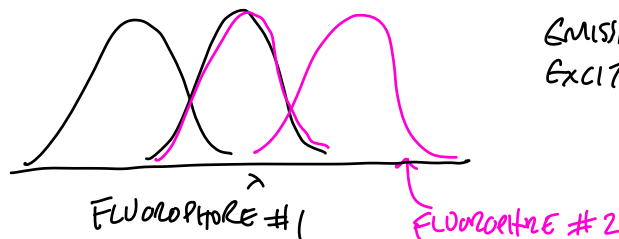
XRAY CRYSTALLOGRAPHY



FRET (FÖRSTER RESONANCE ENERGY TRANSFER)

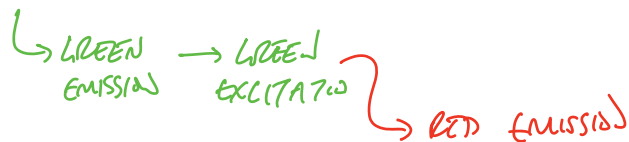


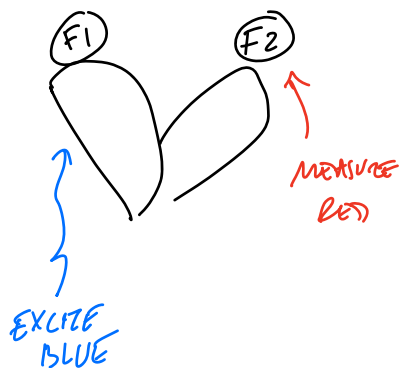
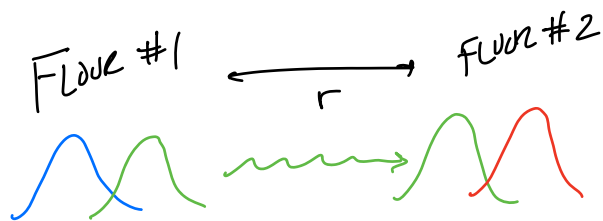
IS FRET COMBINE 2 FLUOROPHORES.



EMISSION OF #1 OVERLAPS EXCITATION OF #2.

EXCITE BLUE





→ LEARN DISTANCE.

$$\text{FRET_INTENSITY} = \frac{1}{1 + (r/R_0)^6}$$

RED OUT
BLUE IN

DISTANCE
↑
DEPENDS
ON FLOUR #2

CHOOSE R_0 TO
CHOOSE DISTANCE
MEASURED.

WAY #1 : BULK MEASUREMENT.



#2: SINGLE MOLECULE.

