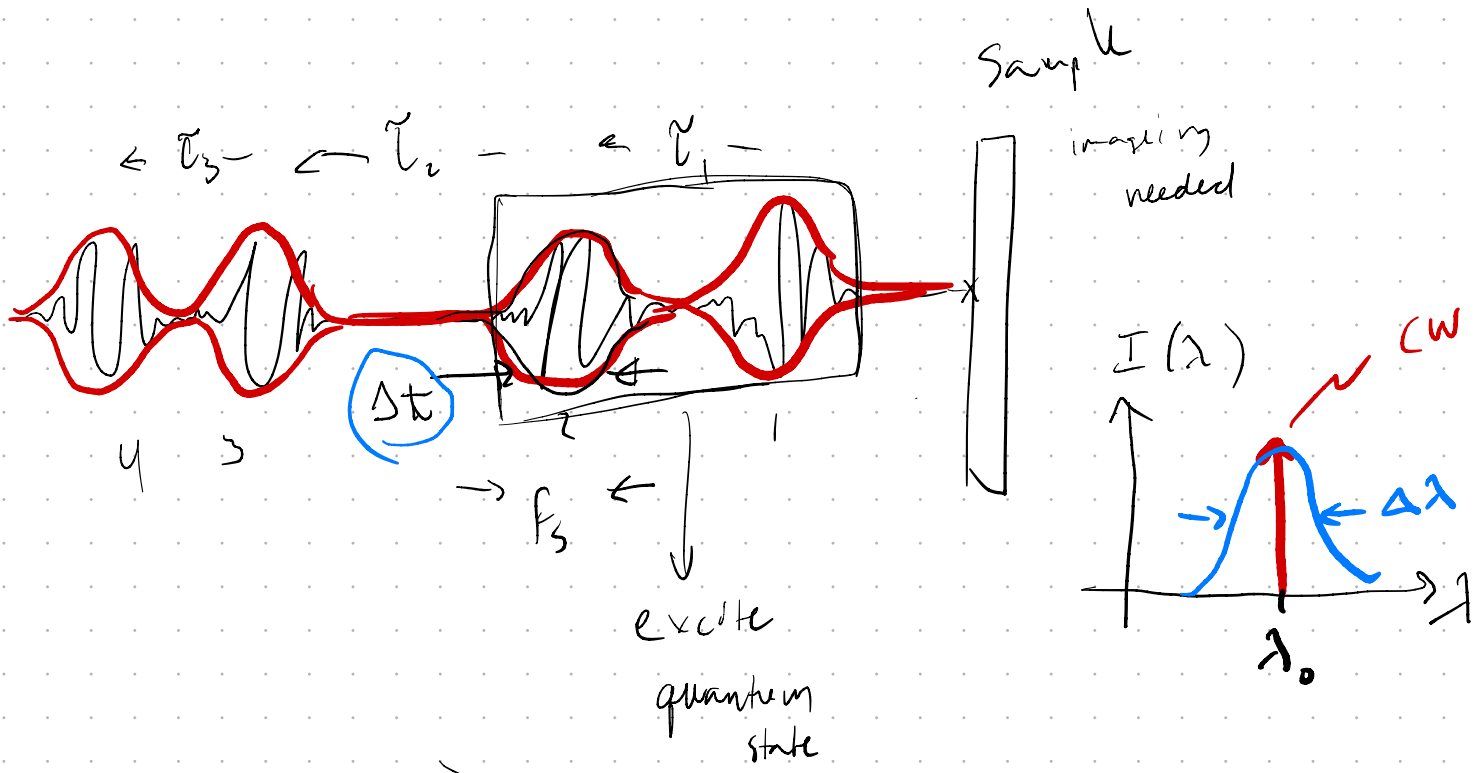
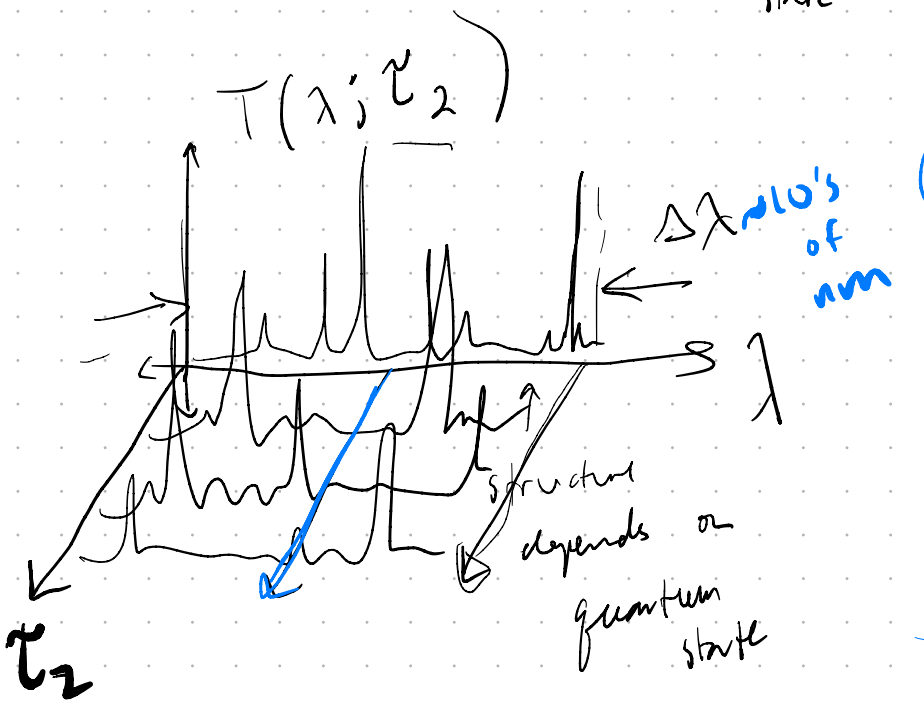
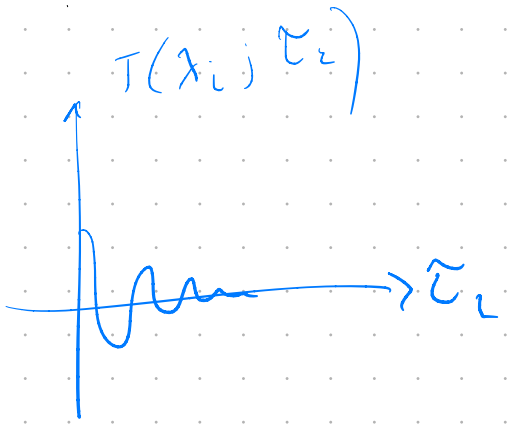
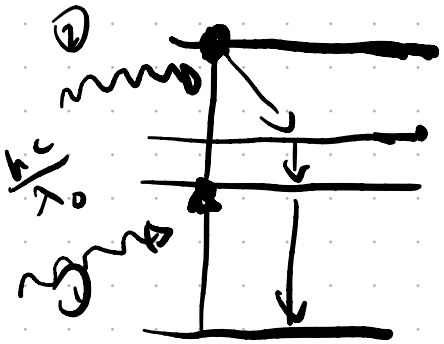




$$\Delta\lambda \propto \frac{1}{\Delta t}$$

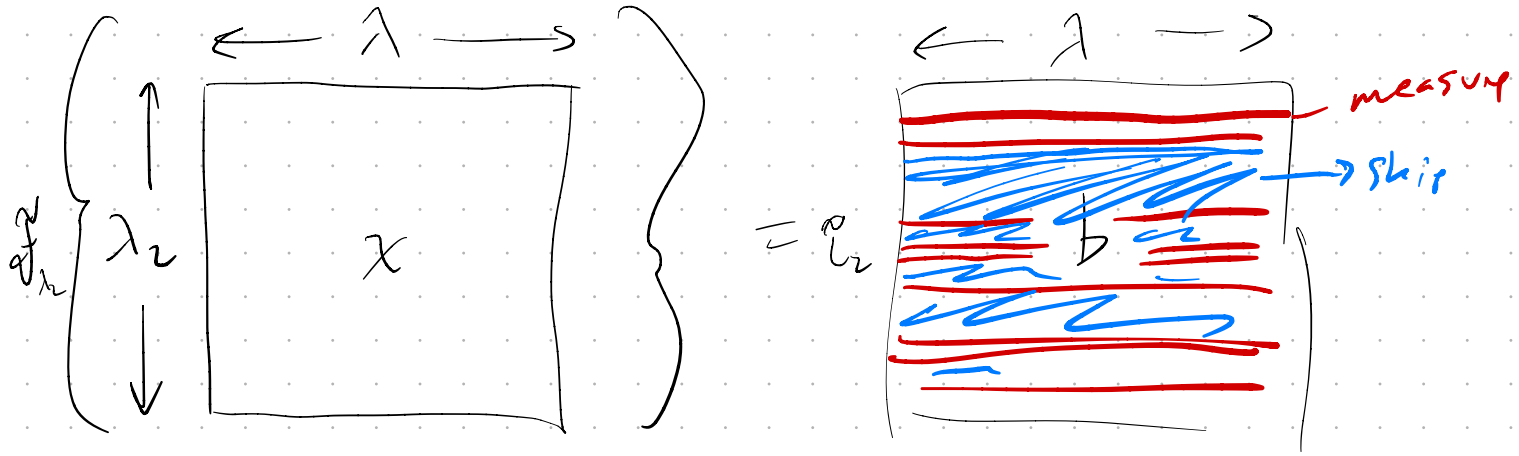




state vs. τ_2

$$\tilde{\mathcal{F}}_{\tau_2}\{T(\lambda_1, \tau_2)\}$$

$$= \tilde{T}(\lambda_1, \lambda_2)$$

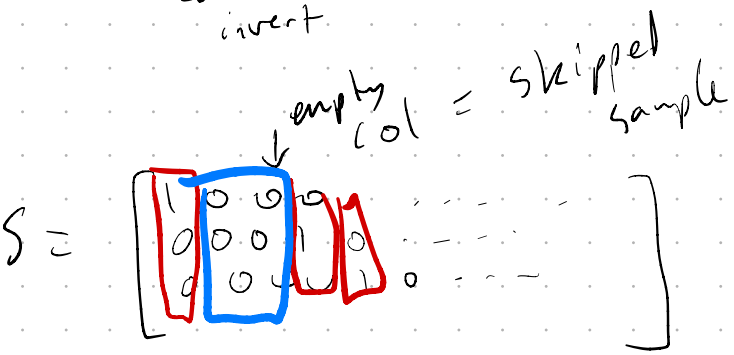


$Ax = b$ $\quad A = F^{-1}$ $\quad F^{-1}x = b$ Fully sampled in r_2

$\hat{x} = F_{r_2} b$

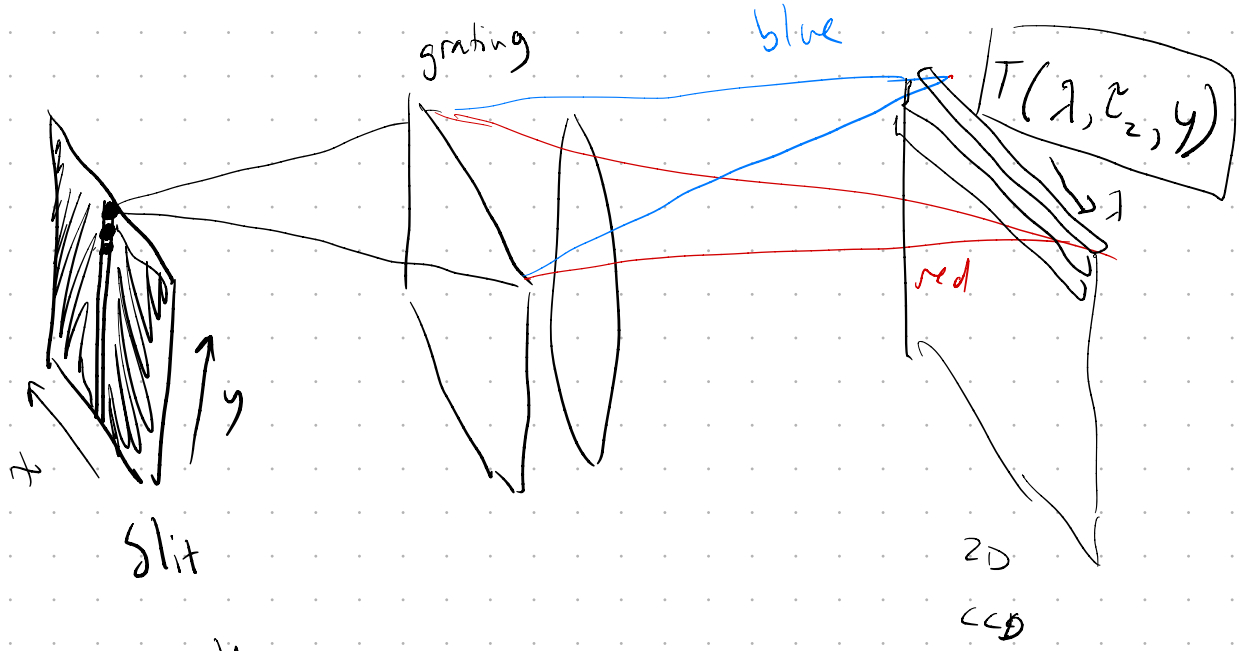
$$\underbrace{SF}\, x = b$$

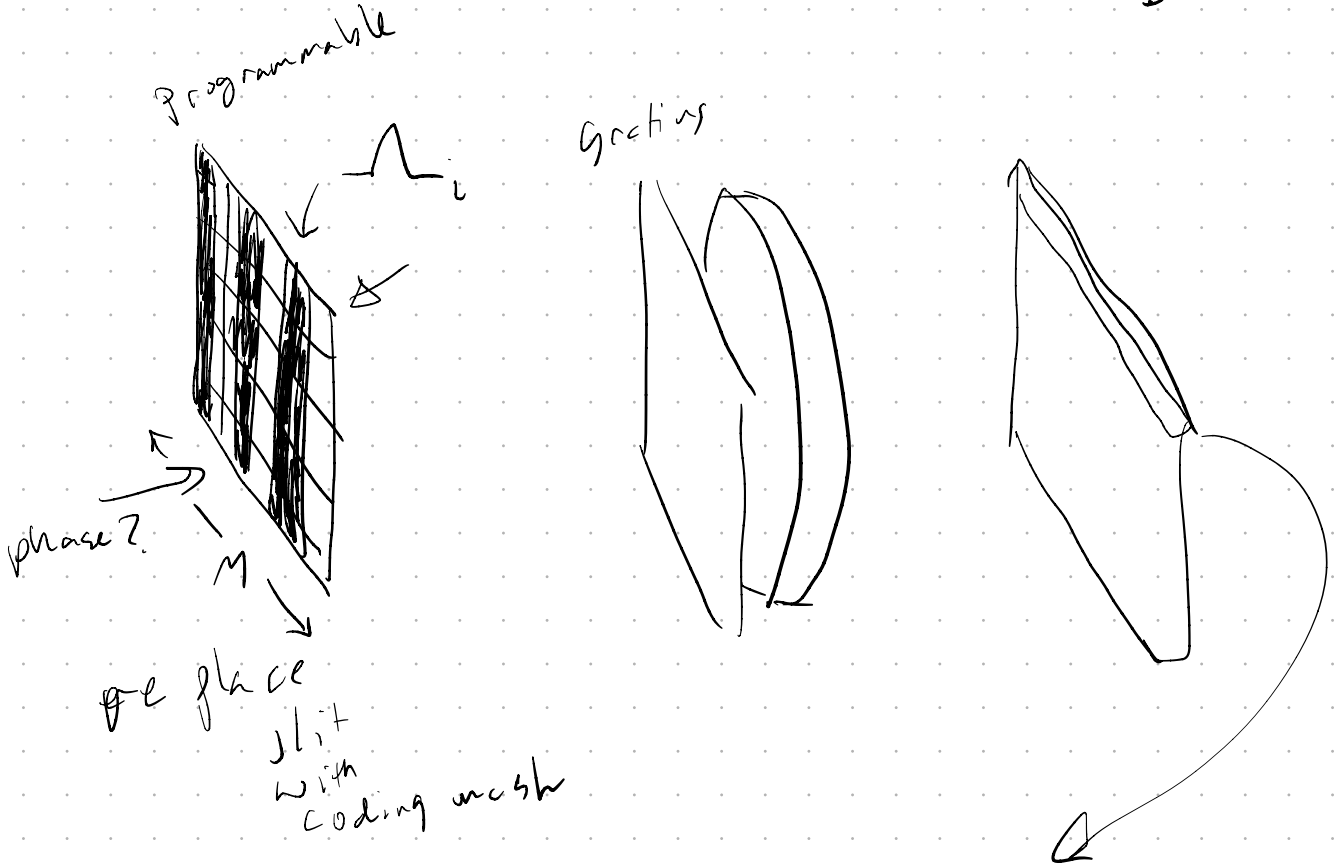
can't invert



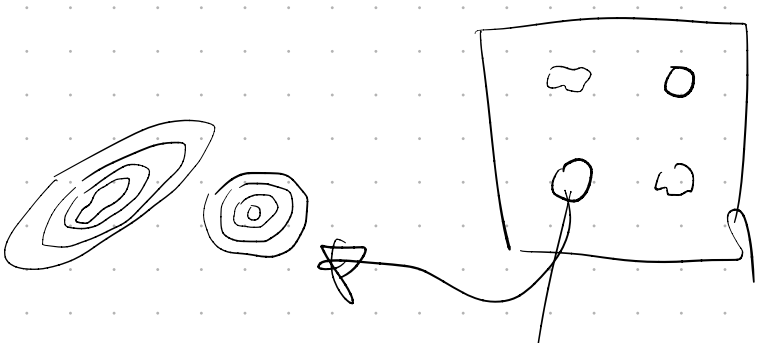
Compressed sensing in r_2

$$\underset{x}{\operatorname{argmin}} \frac{1}{2}\| SF^{-1}x - b \|_2^2 + \rho \|x\|_1$$





$$b_{ij} = \Lambda_i * T(x\lambda; \xi_j, y)$$



$T(\lambda_1, \lambda_2)$

very sparse

care about peak shape