Least square
An=b ner, ber Aerman set derivative || Ax-b|| should be zero solved! but Solve => ATAXLS=ATb XLS (ATA) AT B IATI A = ATA Linear algibra - useful tool to solve multiple variables with multiple equations TAT is hombly only still Inverting ATA is problematic since the condition mumber of ATA is big (ill-posed) (many solutions to a same measument) That is where regularization can help: (filter out abnormal solutions) XTIK = arg min 1/AX-b1/+ 2 | LXI/2 penal= ize large X

(Tikhonov regularization). this is the same as assuming no single pixel of conductivity pixel will be significantly bigger the the neighboring pixels.

So L takes difference of neighbors. In the end Ntik = (ATA+22LTL) ATB makes it better Conditioned