A very Naive Approach to High-dim Inference (Sen Zhos, Witten, Shojaie) 2017. idea: Selection by LASSO is "deterministic" with p=1. => data used only once. [selection consistency]
marginal (& full model) hypothesis testing. (paper of Shi & O.u (2017) falls into this category. Submodel inference. (condition on / uniform for solected models). I double dipping). driven phenomenon: osverage based on & BIAN = (XTXA) XTXY is not too bod. noiseless LASSO: By = organin } = Elly-xbll; + xllbll, Main results: Define $0 \lim_{n\to\infty} P(\hat{A}_{\lambda} = A_{\lambda}) = 1 \quad \text{under conditions} \qquad (M_1) \quad \sqrt{\frac{\log p}{n}} = o(\lambda)$ II X Ac Pac IIs = O(Vlogp) show increase in "noise" (T) irrepresentable condition on by selection consistency in this context.

P(Ax CÂX)

P(Âx CAX) Pj(A)= (XA, XA, J'XA, Y (3) - 1 | 1 y - Xâ, p(Â) ||2 P 6 = (W). regularity condition for Lindeberg-Feller 90 = 1AN hogp > 0 things to hotice about simulation part 1: 1) data-driven selected NISE is worse than data independent usup. The noise - information ratio defined is P* > B* regarding overall information, not weakest signal. 3) the convergence analysis of Ât is based on "most common" Ât [? inclusion of weak signals) 1) it is compared with the conditional setel selective inference method. Tj = 62 V (1- pt)X Thm: $T_j \to N(0,1)$, $\forall j=1,...,p$, under condition: all above (s.t. $P(\hat{A}_n = A_n) \to 1$) but replace $\langle \mathcal{M}_2 \longrightarrow \mathcal{M}_2^2 : \| \chi_{\mathcal{K}_c} \beta_{\mathcal{K}_c}^* \|_2 = o(1).$ ØW→ S: regularity conditions. Simulation part 2: poor power for weak signals. [problem with part]: selection & coverage for readly weak signals?) good of PoSI? convince people about the model?.