§ 4.7 Remedies for large weights Seep1: Determine a maximum allowable weight & 4.7.1 Very large weights: investigative step First step: Why the weights are large? 猫他们的数据是 A识别有large weights 阿对象。在存在问题, 有看fropensity score是 香的题 No truncation: wibiased, large variance Alternative curve 08 ★异常点×\*在X上的 P19000.6 treated) 取值非常大、此时 0.4 异常点 Piget treated)趋 0.2 向于1,若其最终没 有get treated.那 山就会导致large 在两个vertical bar之间, alternative curve 和Original curve N手重合;但在该区间 之外,X\*处耐 Propensity score 明显小了,因此避免3 large weight. 34.7.2 Trimming the tails 在进行 inverse probability 主前基于 propensity score 的 Reople who are very likely to be treated 分布修剪尾巴" Trim the extreme data People who are very likely to trim the tails : 90t be control. rid of some subjects from shave extreme values of propensity BAD: Trim the tails can eliminate some of the extreme weights. >98th Bacomina Common trimming strategy: Subject 但难分配 (1) Remove treated subjects whose propensity scores 如control,因此材料) >98th percentile from the distribution among controls. (Ps<zrd \$ control control subject 很好被pread, treated 面比也打手) <2ndIt. Himmy the tails change the population \$4.7.3 Weight trunction. Blbs: The weight for anyone who had a value higher than that truncation point, to set to the maximum weight. (upper limit, if someone's weight is 1000, set it to to instead.)

upper limit

O aspecific volue (e.g., 100) Depased on persentile (98th, PPth, ...) Seep 2 = 女果weight > 保证的maximum allowable weight set it to the maximum allowable weight. & 4.7.4 bias - variance trade of Truncation: lias, smaller variance

Truncating extremely large weight Tosulara estimators with lower MSE.