ASYMPRITOTIC EQUIPARTITION THEORY Existent, show a code exist. · follows from Law of Large Numbers: Thur. Apr. 24/5 · Let X1, X2, ... be an iid sequence with a finite mean E,[X] = u.L 00 - Let $\bar{X}_n = \frac{1}{n} \sum_{i=1}^n X_i$ be the running x mean for n = 1, 2, ...- The {Xn}, form a sequence of v.v.'s themselves. - The sequence X1, X2, converges to the distribution mean, ii, in the sense: For all 6>0, lim P(|Xn-u|>E)=0 or Xn-12 in probability - the probability the sample mean diverges from The pop goes to zero as n-> or. The sample mean is unlikely to be for aff from unlikely to be for aff from a good estimate of the true pop mean.