IR XI,..., Xu random sample WITHOUT REPLACEMENT from \{\gamma_1, ..., \quad \nd \} $E(\bar{x}) = \bar{y} = \mu$ $\int \sqrt{av} \left(\overline{X} \right) = \frac{\sigma^2}{n} \left(\frac{N-n}{N-1} \right)$ $\sigma^2 = \frac{1}{N} \sum_{j=1}^{N} (y_j - \overline{y})^2$ NOT $\frac{N}{N}$ ABLE! $\frac{n}{N}$ $\frac{n^2}{N}$ $\frac{(N-n)}{N} = \frac{\sigma^2}{N} \left(1 - \frac{n}{N}\right)$