2 ...

$$\operatorname{Var}(x_{ij}|T) = 2p_i^T,$$

$$\operatorname{Var}(x_{ij}|T) = 2p_i^T (1 - p_i^T) (1 + f_j^T),$$

$$\operatorname{var}(x_{ii}|X) = 4p_i^T (1 - p_i^T) \varphi_{ii}^T.$$

 $Cov(x_{ii}, x_{ik} | T) = 4p_i^T (1 - p_i^T) \varphi_{ik}^T$ $(1 - F_{IT}) = (1 - F_{IS})(1 - F_{ST}),$

$$\left(1-f_{j}^{T}
ight)=\left(1-f_{j}^{L_{j}}
ight)\left(1-f_{L_{j}}^{T}
ight),$$

 $F_{\mathsf{ST}} = \sum w_j f_{L_j}^T,$

 $\hat{p}_i^T = \frac{1}{2} \sum_{i}^{n} w_i x_{ij},$

 $\hat{\varphi}_{ik}^{T,\text{new}} \xrightarrow{\text{a.s.}} \varphi_{jk}^{T}.$

E, Var, Cov. round, sgn, logit, $x_{ii}, p_i^T, \hat{p}_i^T, F_{ST}, F_{IT}, F_{IS},$ f_B^A , f_i^T , $f_i^{L_j}$, $f_{L_i}^T$, φ_{ik}^T , $\varphi_{ik}^{L_{jk}}$, $f_{L_{ik}}^T$, $f_{L_i}^{L_{jk}}$, R_{ST} , ϕ_{ST} , G_{ST} , G'_{ST} , $\hat{F}_{ST}^{\text{sample}}$, $\hat{F}_{ST}^{\text{indep}}$, \hat{F}_{ST}^{WC} \hat{F}_{ST}^{Hudson} , $\hat{F}_{ST}^{HudsonK}$, $\hat{\varphi}_{ik}^{T,std}$, $\hat{f}_i^{T,\text{std}}$, $\hat{f}_i^{T,\text{stdII}}$, $\hat{f}_i^{T,\text{stdIII}}$ \hat{F}_{ST}^{std} , \hat{F}_{ST}' , \hat{F}_{ST}'' , $\hat{\varphi}_{ik}^{T,new}$, $\hat{\varphi}_{\min}^{T,\text{new}}$, $\hat{f}_{i}^{T,\text{new}}$, $\hat{F}_{\text{ST}}^{\text{new}}$, $\hat{\varphi}_{ik}^{L_{jk},\text{beagle}}, \hat{f}_{i}^{L_{j},\text{beagle}},$ $\overline{p(1-p)}^T$, A_{ik} , \hat{A}_{min} .