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$$\begin{split} \mathsf{E}[x_{ij}|T] &= 2\rho_i^T, \\ \mathsf{Var}(x_{ij}|T) &= 2\rho_i^T \left(1 - \rho_i^T\right) (1 + f_j^T), \\ \mathsf{Cov}(x_{ij}, x_{ik}|T) &= 4\rho_i^T \left(1 - \rho_i^T\right) \varphi_{jk}^T, \\ (1 - F_\mathsf{IT}) &= (1 - F_\mathsf{IS}) (1 - F_\mathsf{ST}), \\ \left(1 - f_j^T\right) &= \left(1 - f_j^{L_j}\right) \left(1 - f_{L_j}^T\right), \\ F_\mathsf{ST} &= \sum_{j=1}^n w_j f_{L_j}^T, \\ \hat{\rho}_i^T &= \frac{1}{2} \sum_{i=1}^n w_j x_{ij}, \end{split}$$

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

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}^{sample} , \hat{F}_{ST}^{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}'' , $\hat{\varphi}_{ik}^{T,preadj}$, $\hat{\varphi}_{\min}^{T, \text{preadj}}, \ \hat{\varphi}_{jk}^{T, \text{new}}, \ \hat{f}_{j}^{T, \text{new}}, \\ \hat{F}_{\text{ST}}^{\text{new}}, \ \hat{\varphi}_{jk}^{L_{jk}, \text{beagle}}, \ \hat{f}_{i}^{L_{j}, \text{beagle}},$ $\overline{p(1-p)}^T$, A_{Emin} , \hat{A}_{Emin} .