

Calculate sums with [R]

$$\widehat{V}_{RR} = \frac{\sum_f \sum_{1 \leq i, i' \leq m_f; i \neq i'} (n_{fi} - \widehat{\lambda}_{fi})(n_{fi'} - \widehat{\lambda}_{fi'})}{\sum_f \sum_{1 \leq i, i' \leq m_f; i \neq i'} \widehat{\lambda}_{fi} \widehat{\lambda}_{fi'}}$$

$$\widehat{V}_{UU} = \frac{\sum_{f,i} [(n_{f,i} - \widehat{\lambda}_{fi})^2 - n_{fi}]}{\sum_{f,i} \widehat{\lambda}_{fi}^2}$$