

$$\sum_{i=1}^{nsim} \sum_{j=1}^{M_i(D)} \mathbb{I}[\lambda(c_{ij}) > u^*] \quad \text{numerator.}$$

$M_i(D)$: ~~set of~~ ^{# of} maxima in D on the i th simulation.

$$\mathbb{I}[v(\gamma(0)) - v \geq \dots]$$

$$\mathbb{I}[\lambda(c_{ij}) > u^*]$$

$$\geq \mathbb{I}[v(\gamma(0)) - v > \varepsilon u^* - \varepsilon, \quad | \lambda(c_{ij}) - v(\gamma(0)) | < \varepsilon]$$

$$\mathbb{I}[\lambda(c_{ij}) > u^* + \varepsilon, \quad | \lambda(c_{ij}) - v(\gamma(0)) | < \varepsilon] \geq \mathbb{I}[v(\gamma(0)) - v > u^* - \varepsilon, \quad | \lambda(c_{ij}) - v(\gamma(0)) | < \varepsilon]$$

$$\mathbb{I}[\lambda(c_{ij}) > u^*]$$

$$= \mathbb{I}[\lambda(c_{ij}) > u^* \cap | \lambda(c_{ij}) - v(\gamma(0)) | < \varepsilon]$$

$$+ \mathbb{I}[\lambda(c_{ij}) > u^* \cap | \lambda(c_{ij}) - v(\gamma(0)) | > \varepsilon]$$