	$\chi(p)$	$\overline{\chi}(p)$
Empirical	$\frac{a}{a+c}$	$\frac{2\log(a+c)/n}{\log(a/n)} - 1$
Power law	$\frac{1}{n}\exp\left(\frac{\alpha}{\eta}\right) p^{\frac{1}{\eta}-1}$	$\frac{2\log(p)}{\log\left(\frac{1}{n}\exp\left(\frac{\alpha}{\eta}\right)\right)+\frac{1}{\eta}\log(p)} - 1$
Gumbel	$\sim 2 - \frac{(2\log(1-p)^r)^{\frac{1}{r}}}{\log(1-p)} = 2 - 2^{\frac{1}{r}}$ (Coles et al., 1999)	$\frac{2\log(p)}{\log(2p(1-p)^2)} - 1$
Gaussian	$\overline{F}(1-p, 1-p)/p$, where $\overline{F}(1-p, 1-p) = Pr\left(X_1 > x_{1(1-p)},\right.$ $\left.X_2 > x_{2(1-p)}\right) \sim (1+\rho)^{\frac{3}{2}}(1-\rho)^{\frac{1}{2}}(4\pi)^{-\frac{\rho}{1+\rho}}$ $(-\log(p))^{\frac{\rho}{1+\rho}} p^{\frac{2}{1+\rho}}$ as $p \to 0$(Coles et al., 1999)	$\frac{2\log(p)}{\log(\overline{F}(1-p,1-p))} - 1$