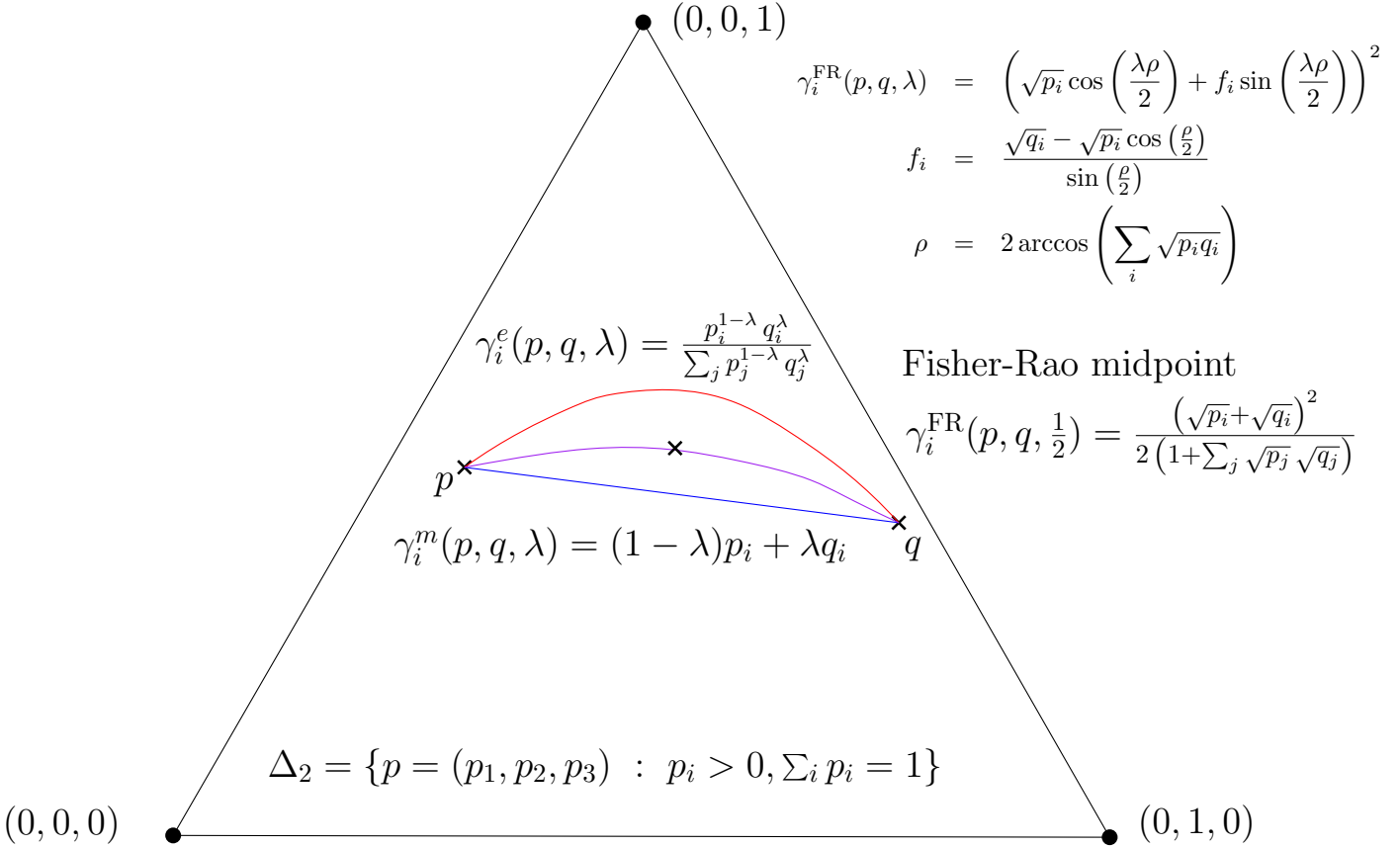
(0, 0, 1)
$\gamma_i^{\mathrm{FR}}(p,q,\lambda) = \left(\sqrt{p_i}\cos\left(\frac{\lambda\rho}{2}\right) + f_i \sin\left(\frac{\lambda\rho}{2}\right)\right)^2$
$f_i = \frac{\sqrt{q_i} - \sqrt{p_i}\cos\left(\frac{\rho}{2}\right)}{\sin\left(\frac{\rho}{2}\right)}$
$\rho = 2\arccos\left(\sum_i \sqrt{p_i q_i}\right)$
$\gamma_i^e(p,q,\lambda) = \frac{p_i^{1-\lambda} q_i^{\lambda}}{\sum_j p_j^{1-\lambda} q_j^{\lambda}}$
Fisher-Rao midpoint
$\gamma_i^{\mathrm{FR}}(p,q,\frac{1}{2}) = \frac{\left(\sqrt{p_i}+\sqrt{q_i}\right)^2}{2\left(1+\sum_j \sqrt{p_j}\sqrt{q_j}\right)}$
p
q
$\gamma_i^m(p,q,\lambda) = (1-\lambda)p_i + \lambda q_i$
$\Delta_2 = \{p = (p_1, p_2, p_3) \ : \ p_i > 0, \Sigma_i p_i = 1\}$
(0, 0, 0)
(0, 1, 0)