Say
$$R(u)$$
 is total $\bar{\omega}$ $p\text{-vol} \leq u$, \bar{s} $r(u)$ is $\#Noll\ \bar{\omega}$ $p \leq u$.

A cot-off equivalent to BH is

 $u^* = \max \left\{ u: u \leq q \frac{R(u)}{N} \right\}$

and thus $\frac{1}{R(u^*)} \leq \frac{1}{N} u^*$.

$$\Rightarrow FDP \text{ is } \frac{\Gamma(u^*)}{R(u^*)} \leq \frac{1}{N} u^* = \frac{1}{N} u^*$$

(Since E[r/u) u] = No for unif. is indep. Null prals.)

N = total # tests, No = # +het are Noll.