*A man who ‘rejects’ a hypothesis provisionally, as a matter of habitual*

*practice, when the significance is at the 1 percent level or higher will*

*certainly be mistaken in not more than 1 percent of such decisions.* One rejects H0 without

knowing if H0 is true.

“Such decisions” are actually

based only on observables.

Pr(mistaken) =

Pr(H0 true | reject H0)

which is not obtainable

by frequentist statistics

*For when the hypothesis is correct* H0 is true

*he will be mistaken in just 1 percent of these cases,* Pr(mistaken | H0) =

Pr(reject H0 | H0) = 0.01

*and when it is incorrect he will never be mistaken in rejection.* Pr(H0 | Ha , reject) = 0

— RA Fisher *Statistical Methods and Scientific Inference*, 1956, 41-2.