Independences of observables X and $Y - i_{Y/X}$ and $i_{Y/X}$ — are definite as ratio of the conditional and marginal Shannon's entropies of levels of X and Y:

$$i_{Y|X} = \frac{H(Y|X)}{H(Y)}, \ i_{X|Y} = \frac{H(X|Y)}{H(X)}, \ 0 \le i \le I.$$

The founded values mean: if $i_Y/_X = 0$, then Y is one-valued function of X; if $i_X/_Y = 0$, then X in one-valued function of Y; if $i_Y/_X = I = i_X/_Y$, then X and Y are mutually independent. It is important, that $i_Y/_X < I \Leftrightarrow i_X/_Y < I$.

S.M.Korotaev