

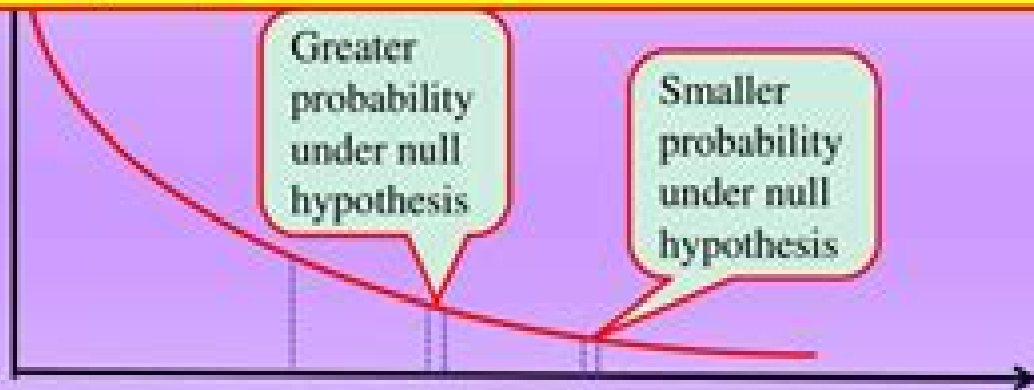


# Frequency domain Causal Analysis Methods based on Two Statistics

RPDC causality  $j \rightarrow i$   $\hat{\lambda}_{ij}(\omega) = N \hat{\mathbf{X}}_j(\omega)^* \hat{\mathbf{V}}_j(\omega)^{-1} \hat{\mathbf{X}}_j(\omega)$

Under the null hypothesis of  $|A_{ij}(\omega)|^2 = 0$ ,  $N \rightarrow \infty$ ,  $\hat{\lambda}_{ij}(\omega) \rightarrow \chi^2_{k_i}$  distribution

RPDC can be directly used to measure the strength of causality from  $x_j$  to  $x_i$  at  $\omega$



$\chi^2_{\alpha_0}$   $\hat{\lambda}_{ij}(\omega_2) < \hat{\lambda}_{ij}(\omega_1)$

$S_{max}(x_j) = \frac{1}{2\pi} \int_0^{2\pi} \hat{\lambda}_{ij}(\omega) d\omega$

Stronger causal

Weaker causal

measure the strength of the causality between each pair of time series

# Frequency Domain Causality Analysis Method For

**Shasha Hu**



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