divergence tests of goodness of fit

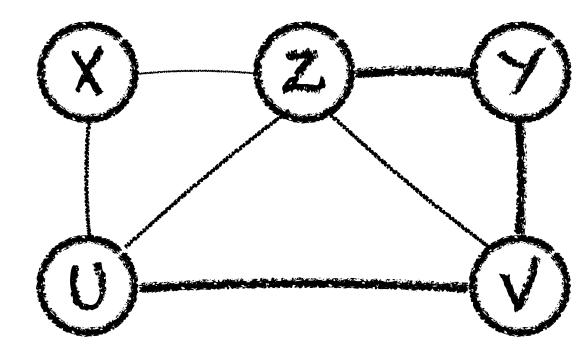
testing nested model specifications

example: five dimensional data (X,Y,Z,U,V) with r_X,r_Y,r_Z,r_U,r_V outcomes

p= model based on empirical distribution p(x,y,z,u,v) with $d(p)=r_Xr_Yr_Zr_Ur_V-1$

q =model with listed imposed independence and conditional independence assumptions

examples:
$$q_1 = X \perp (Y, Z, U, V)$$
 and $U \perp (Y, Z, V)$
$$q_2 = X \perp (Y, Z, U, V) \text{ and } U \perp (Y, Z, V) \text{ and } Z \perp V \mid Y$$



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