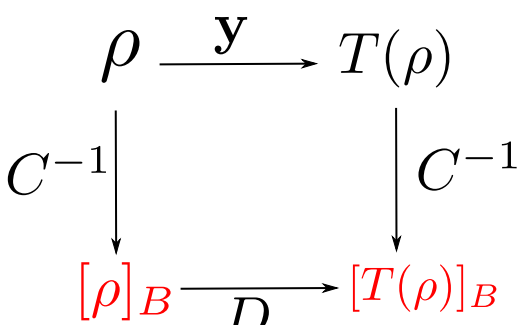

$$C[\rho]_B = \rho$$

$$[\rho]_B = C^{-1}\rho$$

$$D = C^{-1}\mathbf{y}C$$

$$\mathbf{y} = CDC^{-1}$$