

$\rho_B(I) \gamma_B = \rho_B \gamma_B \rho_B \gamma_B (I)$ , For all images

Prof that

$$1) \rho_B \gamma_B \geq \rho_B \gamma_B \rho_B \gamma_B$$

$$2) \rho_B \gamma_B \leq \rho_B \gamma_B \rho_B \gamma_B$$

$$\begin{aligned} 1) \quad & \rho_B \gamma_B = \rho_B \gamma_B \\ & \rho_B \gamma_B \rho_B \gamma_B = \rho_B \gamma_B \\ & \rho_B \gamma_B \rho_B \gamma_B \geq \rho_B \gamma_B \end{aligned}$$

$$\begin{aligned} 2) \quad & \rho_B \gamma_B = \rho_B \gamma_B \\ & \rho_B \gamma_B = \rho_B \gamma_B \rho_B \gamma_B \\ & \rho_B \gamma_B \geq \rho_B \gamma_B \rho_B \gamma_B \end{aligned}$$