

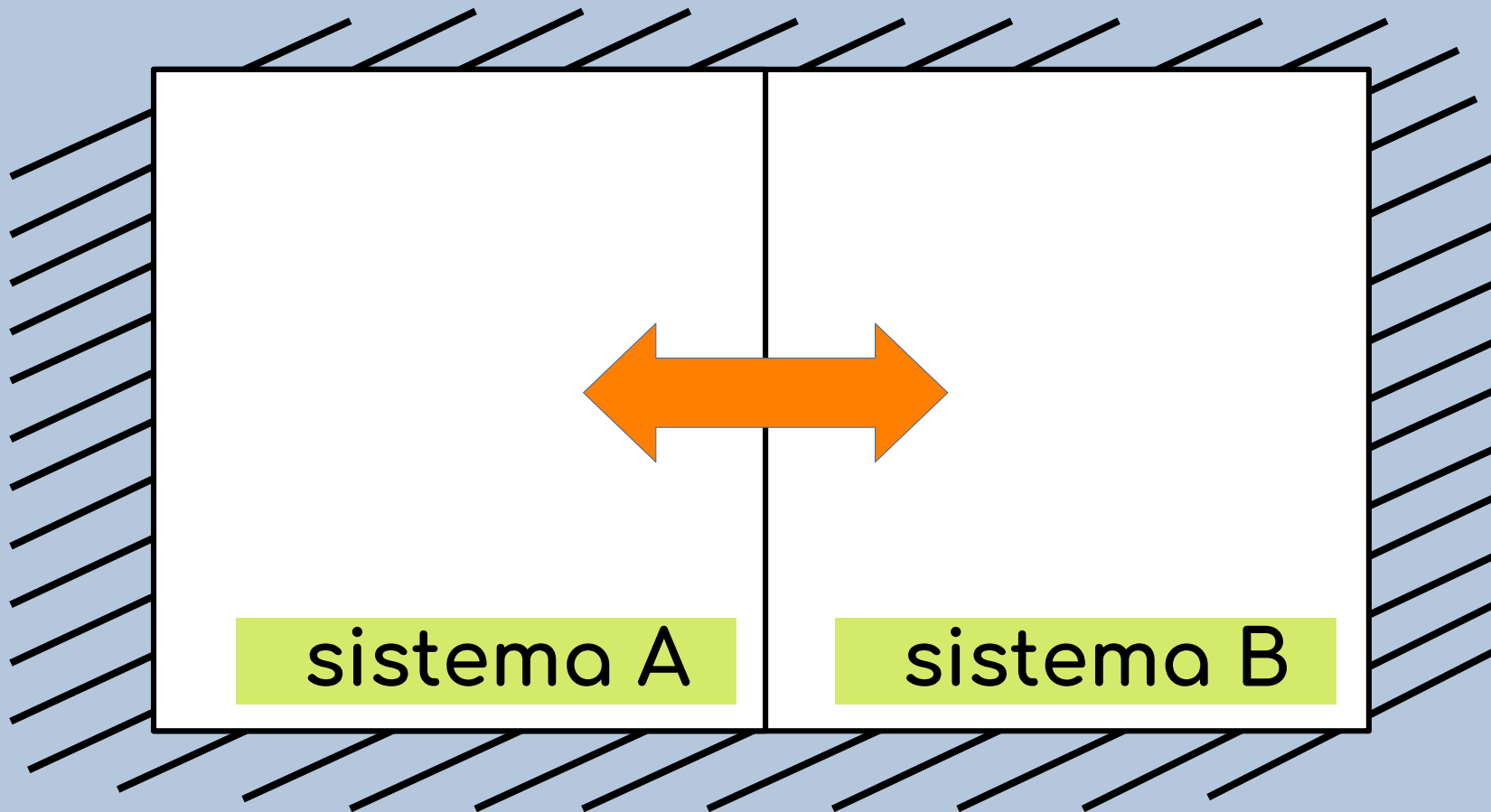


A diagram illustrating a system and its environment. A large white rectangle is centered on a light blue background. The rectangle is surrounded by a series of black diagonal lines, creating a hatched effect. Inside the white rectangle, the Greek letter  $\rho$  is positioned in the lower right area. Below the  $\rho$ , the word "sistema" is written in black text on a light green rectangular background. In the bottom right corner of the overall image, the word "entorno" is written in black text on a light green rectangular background.

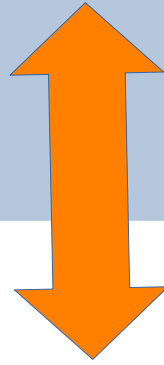
$\rho$

sistema

entorno

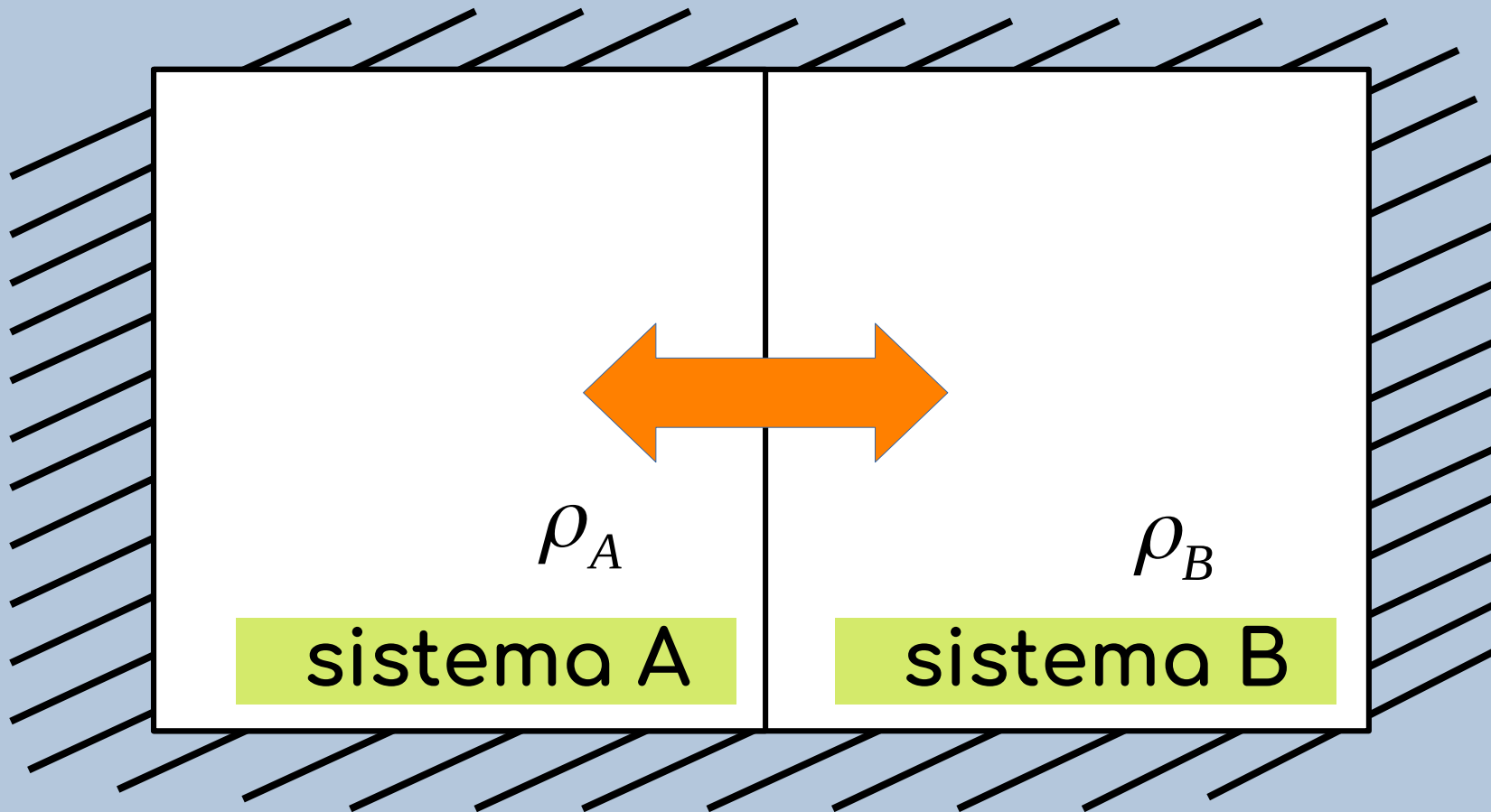


entorno



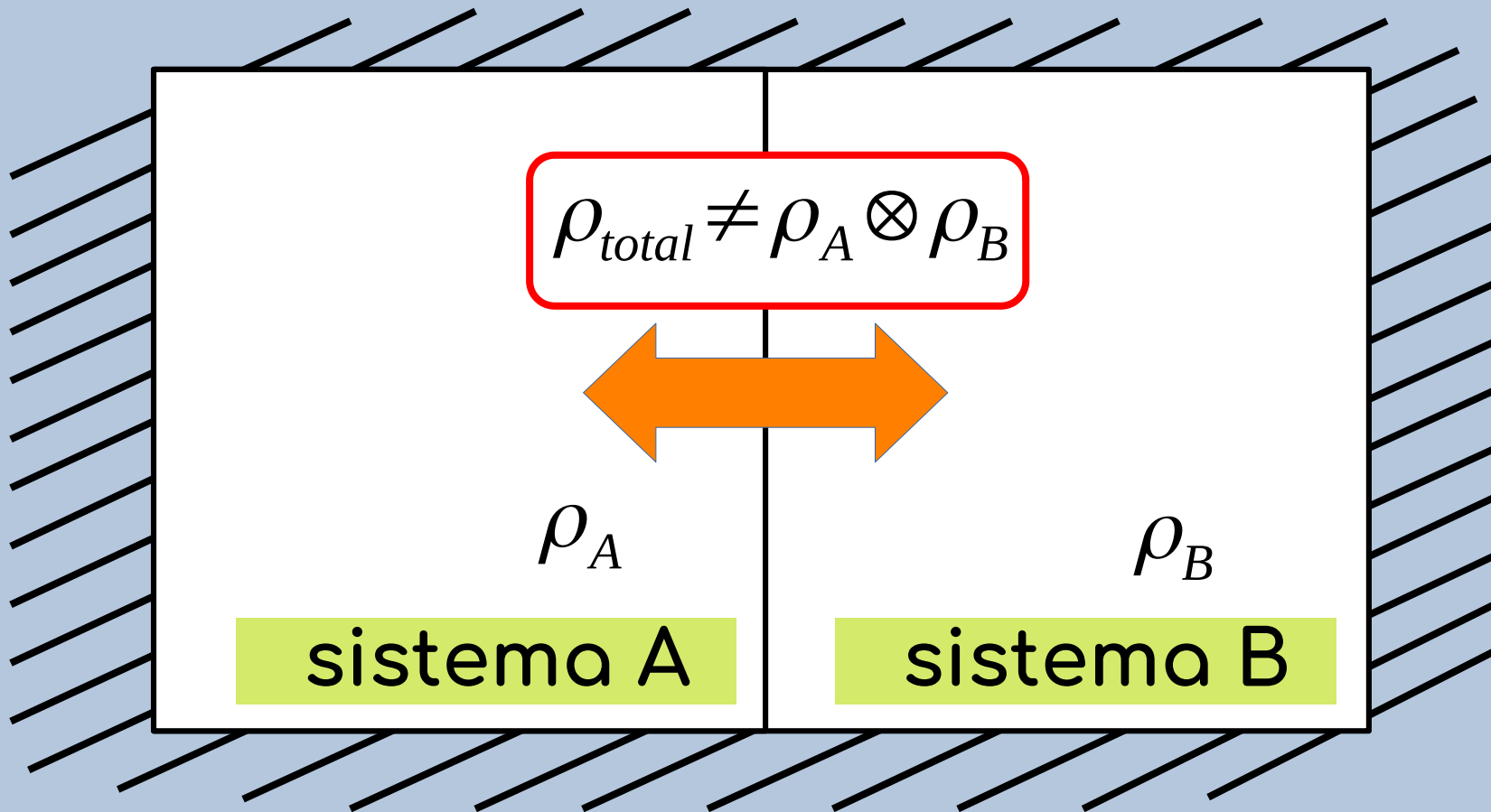
sistema

entorno



entorno





entorno

The diagram illustrates a quantum system A and its copy within an environment. A large white rectangle is divided vertically by a black line. The left half is labeled 'sistema A' and the right half is labeled 'copia de A', both in black text on light green rectangular backgrounds. Above the dividing line, the total density matrix is given as  $\rho_{total} = |Bell\rangle\langle Bell|$ , enclosed in a red rounded rectangle. A large orange double-headed arrow points horizontally across the dividing line, indicating interaction or correlation between the two halves. The entire white rectangle is surrounded by a light blue background with diagonal black hatching lines, representing the environment. At the bottom right, outside the white rectangle, the word 'entorno' is written in black text on a light green rectangular background.

$$\rho_{total} = |Bell\rangle\langle Bell|$$

$\rho_A$

sistema A

$\rho_B$

copia de A

entorno

