

$$p \rightarrow \pi^+ + \pi^0$$

Q:  $1 \rightarrow 1$  ✓

B:  $1 \rightarrow 0 + 0 = 0$  X NO ✓

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$$p + p \rightarrow p + p + \pi^0$$

Q:  $2 \rightarrow 2$  ✓

B:  $2 \rightarrow 1 + 1 + 0 = 2$  ✓ Permitido ✓

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$$p + p \rightarrow p + \pi^+$$

Q:  $1 + 1 \rightarrow 1 + 1$  ✓

B:  $1 + 1 \rightarrow 1 + 0$  X NO ✓

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$$\pi^+ \rightarrow \mu^+ + \nu_\mu$$

Q:  $1 \rightarrow 1$  ✓

B:  $0 \rightarrow 0 + 0$  ✓

$L_\mu$ :  $0 \rightarrow -1 + 1 = 0$  ✓ Permitido ✓

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$$n \rightarrow p + e^- + \bar{\nu}_e$$

Q:  $0 \leftrightarrow 1 + (-1) = 0$  ✓

B:  $1 \leftrightarrow 1 + 0 + 0 = 1$  ✓

$L_e$ :  $0 \leftrightarrow 0 + 1 + (-1) = 0$  ✓ Permitido ✓

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$$\pi^+ \rightarrow \mu^+ + \nu$$

X

Q:  $1 \leftrightarrow 1 + 0 = 1$  ✓

B:  $0 \leftrightarrow 0 + 1 = 1$  X NO

$L_\mu$ :  $0 \leftrightarrow -1 + 0 = -1$  X NO