

**Answer on question #60876, Physics / Other**

**Question** State giving reasons, which of the following reactions are possible and which ones not? representation. (Show full working) 1.

$$n^0 \rightarrow p^+ + e^- + \nu_e$$

2.

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

**Solution** Both reactions are OK. The energy, charge, parity, isospin, isospin projection and lepton number are conserved in both, so they are possible.