

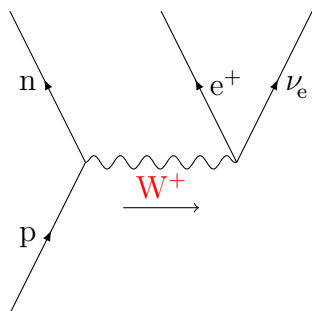
Feynman diagrams

A.C. NORMAN

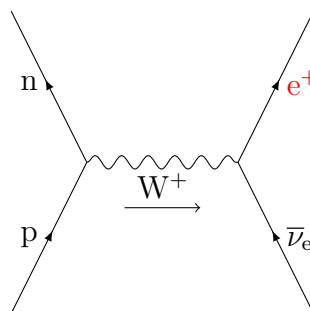
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State what each Feynman diagram below represents, and name the missing particle.

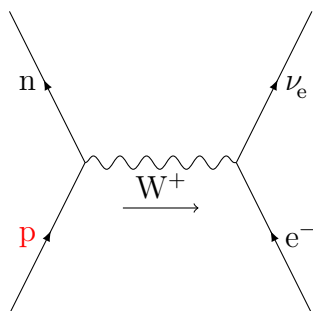
1. β^+ decay ($p \rightarrow n e^+ \nu_e$)



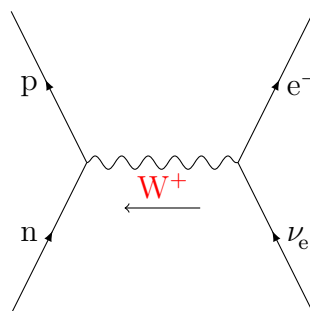
4. antineutrino-proton collision ($p \bar{\nu}_e \rightarrow n e^+$)



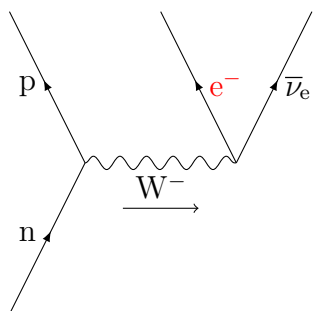
2. e^- capture ($p e^- \rightarrow n \nu_e$)



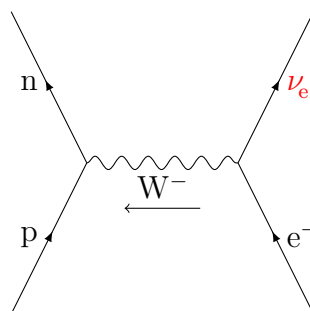
5. neutrino-neutron collision ($n \nu_e \rightarrow p e^-$)



3. β^- decay ($n \rightarrow p e^- \bar{\nu}_e$)



6. electron-proton collision ($p e^- \rightarrow n \nu_e$)



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