

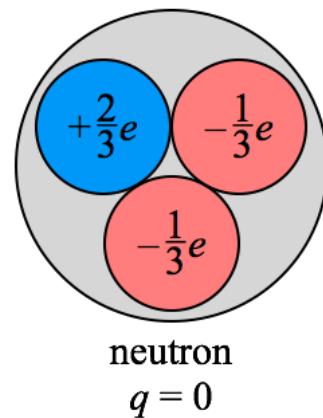
Answer on Question 63606, Physics, Atomic and Nuclear Physics

Question:

Why the neutron has no charge?

Answer:

Let's consider the quark structure of the neutron. The neutron consists of three quarks: two down quarks with charge $-\frac{1}{3}e$ and one up quark with charge $+\frac{2}{3}e$:



So, due to this arrangement of quarks the net electric charge of the neutron is zero.

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