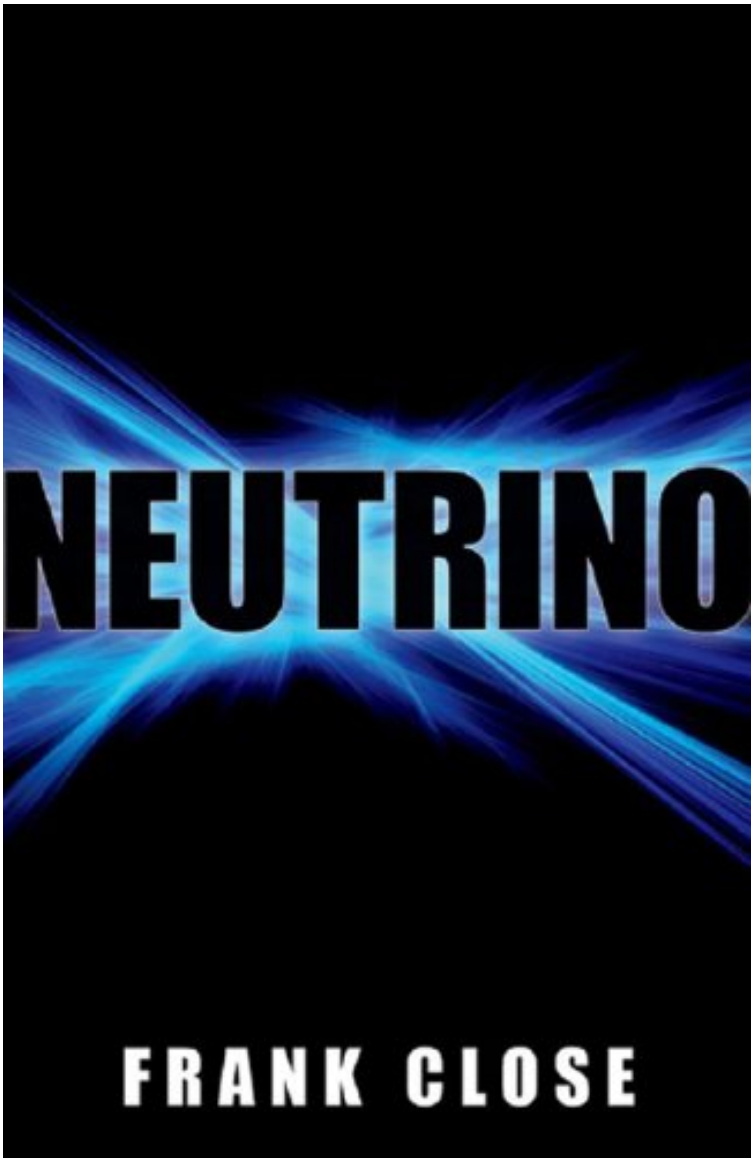
Neutrino



Par Frank Close
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Description :

Prsentation de l'diteurWhat are neutrinos? Why does nature need them? What use are they?Neutrinos are perhaps the most enigmatic particles in the universe. Formed in certain radioactive decays, they pass through most matter with ease. These tiny, ghostly particles are formed in millions in the Sun and pass through us constantly. For a long time they were thought to be massless, and passing as they do like ghosts they were not regarded as significant. Now we know they have a very small mass, and there are strong indications that they are very important indeed. It is speculated thata heavy form of neutrino, that is both matter and antimatter, may have shaped the balance of matter and antimatter in the early universe.Here, Frank Close gives an account of the discovery of neutrinos and our growing understanding of their significance, also

touching on some speculative ideas concerning the possible uses of neutrinos and their role in the early universe.Revue de presseRecommended reading ('Background briefing' list for 2015 Nobel Prize for Physics)it's a little cracker. An awful lot of popular science passes across my desk, and it's very rare that the vast majority of the content is new and fresh, but that's the case here... it's a fascinating story. Apart from anything else, it's a great example of what real science is like. (Brian Clegg, Popular Science)A fine piece of scientific popularisation from one of the best scientific communicators around. (Literary)Close tells this story with verve and precision... admirably clear and eminently accessible. (Wall Street Journal)As an award-winning writer, Close tells this detective story with great style. (Robert Matthews, BBC Focus)Prsentation de l'diteurWhat are neutrinos? Why does nature need them? What use are they?Neutrinos are perhaps the most enigmatic particles in the universe. Formed in certain radioactive decays, they pass through most matter with ease. These tiny, ghostly particles are formed in millions in the Sun and pass through us constantly. For a long time they were thought to be massless, and passing as they do like ghosts they were not regarded as significant. Now we know they have a very small mass, and there are strong indications that they are very important indeed. It is speculated thata heavy form of neutrino, that is both matter and antimatter, may have shaped the balance of matter and antimatter in the early universe.Here, Frank Close gives an account of the discovery of neutrinos and our growing understanding of their significance, also touching on some speculative ideas concerning the possible uses of neutrinos and their role in the early universe.