

Reaction of radioactive material

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Abstract

A radioactive material moves physically in response to reaction at the time of emission of radioactivity.

Science thought use of radioactivity as important and has turned its eyes only to the radioactivity side. The action reaction over the radiation nuclear side and a basic rule called conservation of momentum are forgotten. The radiation nuclear side is moving in response to reaction according to big radiant energy.

In the case of Cs137, in a living body, it becomes the speed which damages a living body tissue greatly in the neighborhood.

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radioactive sources, 87.56.bg

Theory and examine

Although research of radioactivity is made from Madame Curie's time, since the radioactivity side had interest of research, the research by the side of a radioactive material is considered to be a neglected thing.

The conservation law of action reaction and momentum is a physical basic rule, and also when a radioactive material takes each of an alpha ray, a beta ray, and a gamma ray out, it needs to be applied.

Existence of this reaction cannot be denied on nuclear physics, either (1, 2). It is a form where an electron jumps out of a neutron at the reaction in which a neutron collapses to an electron and a proton. Intervention of the field where the conservation law of momentum is broken is not known.

When radioactive cesium of Cs137 emits the gamma ray of 661KeV in the above-mentioned process, the speed by the reaction caused in Cs137 side is set to 1.5 km/s. When emitting the beta ray of 512KeV, it was 1.2 km/s.

It is over acoustic velocity three to four times, respectively, and is the speed which causes serious damage inside the living body tissue near the radioactive material.

It is greatly over the junction energy of a surrounding intermolecular force also in energy, and much

cutting of a molecular bond will be caused.

Discussion

It was not understood whether accumulation of Cs137 would influence in the radioactivity damage of Fukushima. It became clear to be greatly damaged according to the reaction by the side of this radioactive material.

Although the radioactivity of Fukushima has so far been estimated by the gamma ray and the beta ray mainly, inside the living body, the mechanism of concentrating to specific internal organs was not clear respectively.

In the case of Cs137, the concentration to the thyroid gland of cesium is known in the rat, and it is (3), Also in people, the possibility is high and the check by a medical field is immediately needed.

The influence of this reaction that was not clear until now occupies the about half of the influence of radioactivity in energy. The influence should be solved immediately.

Although it is necessary to check under the influence of the nuclear power plant disaster of Fukushima in Japan, in the world, reconfirmation is needed under the influence of the health impairment on depleted uranium.

Since depleted uranium also moves in response to the big reaction at the time of radiation of an alpha ray, the living body tissue should be damaged greatly.

Existence of reaction is important as nuclear physics, and should be checked as physics.

Reference

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Comment

The original of this paper is Japanese. I am a beginner here, and my English is limited.

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