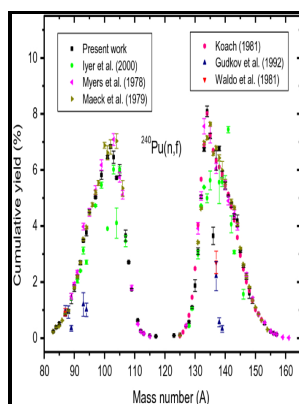


# Half-life of some long-lived actinides - a compilation.

Commission of the European Communities - Long



Description: -

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Eur 5194half-life of some long-lived actinides - a compilation.

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## Half

Stather, in , 1979 2. As long-term hazards, HLLW contains, in addition to residual uranium and plutonium, several long-lived  $\alpha$ -emitting minor actinides such as neptunium, americium, and curium, and fission products such as  $^{99}\text{Tc}$ ,  $^{129}\text{I}$ ,  $^{93}\text{Zr}$ , and  $^{135}\text{Cs}$ .

## Radioactivity : Minor Actinides

In this case, death occurs as a result of massive pulmonary oedema and pulmonary haemorrhage. The blanket configuration of the FDT is improved by analyzing various sample blanket design combinations with different radial thicknesses.

## A fast reactor system to shorten the lifetime of long

Clearly, it is very difficult to imagine a man inhaling amounts of plutonium exceeding about 10 milligrams. VANINBROUKX, in Actinide Newsletter, by S. Transmutation has also been considered for  $\text{Cs-135}$ , but is almost certainly not worthwhile for the other LLFPs.

## Radioactivity : Minor Actinides

Neutron captures are not frequent. By about 3 million years,  $\text{Zr-93}$  decay energy will have declined below that of  $\text{I-129}$ . The new study led by Satoshi Chiba at Tokyo Tech shows that effective transmutation of LLFPs can be achieved in fast spectrum reactors without the need for isotope separation.

## Long

Three have relatively high yields of about 6%, while the rest appear at much lower yields. The focus of this chapter is on the engineering concepts associated with the requirements of these activities.

## Radiotoxicity

The first three have similar half-lives, between 200 thousand and 300 thousand years; the last four have longer half-lives, in the low millions of

years.

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