介紹

核脈衝推進[r]

使用核爆作為推力的太空飛行推進器[lr]

主要材料為鈾-235、鈽-239[w]

核脈衝飛船計劃將核分裂作為推動力能源[lr]

分裂能量來自原子核分解時釋放出中子與質子[r]

並產生大量的伽馬射線能量[w]

由於飛船尾部的核脈衝推進需要大爆炸的衝擊力[r]

所以需要用來吸收爆炸衝擊力的大塊厚實金屬板[r]

以及一系列的衝擊波吸收器來將船員與爆炸後的餘震隔離。[w]

N.E.M.P.[r]

A space thruster using nuclear explosions as thrust[lr]

The main materials are uranium-235 and plutonium-239.[w]

Nuclear Impulse spacecraft plans to use mitosis as a driving force for energy.[r]

The energy comes from the release of neutrons and protons when the nucleus is decomposed[r]

and produces a lot of gamma-ray energy.[w]

Due to the nuclear impulse propulsion at the rear of the spacecraft, the impact of the Big Bang is required.[r]

So, a large and thick metal plate is needed to absorb the impact of the explosion.[r]

And a series of shock wave absorbers are also needed to isolate the crew from aftershocks after the explosion. [w]

隔離震波的材料再加上核分料的原料會導致飛船十分笨重[lr]

若不是能量來源十分強大[r]

核分裂飛船將比太陽帆動力慢[w]

理論上來說核脈衝推進可以達到5~10%光速[lr]

可以讓人類在40年內到達距離太陽系最近的恆星[r]

而且就理論上來說完全可行[w]

但是[r]

帶著一堆原子彈在身後飛行[lr]

真的是一件需要好好考慮的事情[w]

The material that isolates the shock waves, together with the raw material for the nuclear separation, can make the spacecraft very bulky.[lr]

If the power of the energy source isn’t very powerful,[r]

the N.E.M.P. ship will be slower than the solar sails.[w]

Theoretically, nuclear pulse propulsion can reach 5 to 10% light speed,[lr]

which could allow humans to reach the closest star to the solar system within 40 years.[r]

And it's perfectly feasible in theory.

However,[r]

flying with a bunch of atomic bombs behind you[r]

is really something that needs to be considered.[w]