介紹

曲速引擎有三個關鍵設置：[lr]

1、後方被拉伸的空間[lr]

2、前方被壓縮的空間[lr]

3、中間包圍飛船的彎曲空間空泡[w]

曲速引擎利用的是空間的彈性推動中間的曲速泡包裹的飛船前進[r]

對於飛船來說曲速泡包裹下，它與周圍的空間並沒有位移[r]

對於前後空間來說，移動的是曲速泡的空間[r]

而空間膨脹導致的位移並不受光速的限制，因此曲速引擎可以達到遠超光速的存在 ![w]

The warp drive has three key settings:[lr]

1. The space expended behind.[lr]
2. The space compressed in front.[lr]
3. The space-distorting bubble that surrounds the ship in the middle.[w]

The warp drive uses the elasticity of space to push the spaceship in the middle of the space-distorting bubble-wrapped ship forward.[r]

For the spacecraft, the bubble wraps it, and it does not shift from the surrounding space.[r]

For the front and rear spaces, the space of the space-distorting bubble moves.[r]

The displacement caused by space expansion is not limited by the speed of light, so the warp drive can achieve the speed exceeding light! [w]

以前的研究結果認為曲速驅動的耗能大約需要與木星質能相當的能量[r]

而現在科學家計算發現相比較於平坦的環而言[r]

如果圍繞著宇宙飛船的環形結構可調整為更多的類似甜甜圈狀的圓形[r]

那麼在這種情況下我們只需要一個探測器大小的質能就能驅動「曲速引擎」[r]

也就是說一個類似美國國家航空航天局1977年發射的旅行者1號探測器質能就可以開啟超光速的恆星際旅行。[w]

最近的科學發現也對曲速理論有了支持![r]

2016年，科學界證實了黑洞合併造成的重力波（GWS）[r]

這發現證實了愛因斯坦一個世紀前所做的預測，也增加了曲速航行的可能[w]

不過就目前來說[r]

曲速引擎還是不合理的,尤其是有考慮相對論的狀況下[r]

不過我相信有朝一日，人類一定能運用曲速引擎航行在星際間[w]

Previous studies have suggested that driving energy consumption requires about the same amount of energy as Jupiter's mass.[r]

And now scientists calculate and find that comparing to flat rings,[r]

if the ring structure surrounding the spacecraft can be adjusted to more doughnut-like circles, [r]

we only need a detector-sized mass to drive the "warp drive".[r]

That means a spacecraft which is similar to a Voyager 1 probe, launched by NASA in 1977, could be able to start light-speed interstellar travel. [w]

Recent scientific discoveries have also supported the theory! [r]

In 2016, the scientific community confirmed the gravitational waves (GWS) caused by the merger of black holes.[r]

This finding confirms Einstein's prediction a century ago and increases the likelihood of this kind of travelling.[w]

But for now,[r]

the curvature engine is still unreasonable, especially in the case of relativity.[r]

But I believe that one day, humans will be able to use the warp drive to sail between the stars.[w]