

SPACE EXPLORATION SYMPOSIUM (A3)
Poster Session (P)

Author: Mr. Lixia Guang
China, glx271828@139.com

A POSSIBLE WAY TO EXPLORER BEYOND THE SOLAR SYSTEM

Abstract

Pioneer 10 , Pioneer 11 , Voyage 1 and Voyage 2, are the only four man-made spacecraft ever been to the boarder of the solar system. Despite the durability and the power limitation of RTGs, they brought us plenty of information. However, to build a spacecraft which can fly beyond the border of solar system, there are basically approaches:

1. The simplest way, which is to fly directly towards the destination, but the long journey could decrease the probability to meet the celestial bodies when going across their orbits, especially the planets.
2. The common way, explore some planets and their satellites, even asteroids and comets, but the journey takes longer time or more fuel due to the changes of speed and direction.

Here comes an idea: track some long term comets which can reach the border of the solar system, launch the spacecraft to some of them so that the spacecraft becomes the satellite of the comet or even land on the comet.