

## 64. THE LUMINAL SPACE-CRAFT APPLICATIONS OF LASER

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Travelling in a vehicle at the velocity of light, was considered to be impossible at any moment of time, has now got a possibility. This has been made possible by the application of laser in vacuum. It is familiar to us that there is no friction to heat, weld or melt off the metal when laser is passed through vacuum. When we project this laser ray onto a thin film of metal (for eg: Aluminium), we see that the metal atoms are excited and the electrons are pushed at the velocity of laser ray, which actually follows Newton's third law of motion. Now, it is observed that the electrons in turn move in the direction of the incident laser ray and collide with surface of the space vehicle that is to be set into motion. Now the electrons move backward after pushing the vehicle forward and as there is no damping factor to stop or slow down the motion. Moreover it is noticed that there is negligible friction and so it keeps on moving until stopped by some other means.

Keywords: laser, travel at velocity of light, laser in vacuum.