The ISS Bèkuo

A Conceptual Vehicle Design for an International Human Mars Mission

Ad Astra Rocket Company
ISS Bekuo

Ad Astra’s latest human Mars concept ship: A 200MW nuclear electric powered vehicle driven by four 50 MW VASIMR® plasma rockets. The ship would make the journey to The Red Planet in less than two months. With a power level equivalent to that of a Boeing 747, it would depart the Earth-Moon Lagrange point with an initial mass of 600 MT (about 1.5 x the International Space Station). The ship is powered by four 50MW (electric) nuclear reactors, with advanced magneto hydro dynamic (MHD) power conversion. The VASIMR® engines will have been previously flight qualified at Ad Astra's future rocket test facility on the surface of the Moon. The liquid hydrogen propellant, which will become the plasma, is stored in a toroidal tank cluster that also provides efficient shielding for the human crew against high energy protons from the Sun. A high magnetic field superconducting shield is also nested inside the propellant tank cluster to provide additional shielding against galactic cosmic radiation (GCR).

The designation VF-200M-N means VASIMR®, 200 Megawatt, Nuclear electric

The name ISS means International Space Ship and "Bekuo" means "Shooting Star" in the language of the Bri-Bri indians of southeastern Costa Rica, some of our early American astronomers and mathematicians, descendants from the Maya-Inca cultures. As an international project, it would involve many countries and more flags will be added as nations join together.