



**‘IMILOA**  
Astronomy Center of Hawai‘i

## **VOYAGE THROUGH SPACE**

*An Experimental Theater in 3D*

“Voyage Through Space is a unique seven-minute presentation at ‘Imiloa Astronomy Center provided by the National Astronomical Observatory of Japan (NAOJ), which operates the Subaru Telescope atop Maunakea.

Using scientifically accurate and up-to-date data, researchers from NAOJ have given the ‘Imiloa Astronomy Center a way to traverse the Universe in four dimensions, traveling in space from our home planet to the distant reaches of the Universe and in time back to the Big Bang more than 13 billion years ago.

The program is a beautiful and accessible representation of real observational and computer simulation data, which one views with 3-D glasses.

‘Imiloa’s program is a voyage through space highlighting portions of the data library of NAOJ’s Four Dimensional Digital Universe Project, which is referred to as its 4D2U library. ‘Imiloa Astronomy Center will be the first location in the world to provide continuous access to this material in this engaging format that will help the general public better grasp both the beauty and the vastness of space.

NAOJ Director Dr. Norio Kaifu said he wanted to engage people from all walks of life to experience the “mesmerizing beauty of the Universe, as revealed by modern astronomy, without sacrificing scientific accuracy.” Dr. Kaifu was instrumental in arranging to have this unique theater program donated to ‘Imiloa Astronomy Center. Technical advisors from Japan installed the system for the Center.

The program at ‘Imiloa is only a portion of the 4D2U library, which is used for research, education and entertainment.