**Book Proposal**

**Introduction to Observational Astronomy**

**Part 1: Observational techniques**

**1.1 -** Observing techniques: photometry and spectroscopy (Nguyen Thi Thao (Nha Trang Observatory)

**1.2 -** Position and Flux Calibrations with traditional method and deep learning method (Tran Quang Vinh)

**1.3 -** Observational Astronomy (Mikio Kurita, Kyoto University)  
**1.4 -** Telescope Development: Seimei 3.8m Segmented Telescope (Mikio Kurita, Kyoto University)

**1.5 -** High energies gamma-ray astronomy and beyond: Cherenkov Telescopes (John Hoang, Berkeley)

**1.6 -** A brief introduction to radio interferometry: from visibility to sky brightness (Hoang Ngoc Duy, Hamburg Observatory)

**Part 2: Observations**

**2.1** – Solar activity and its effects on the ionosphere and VLF array (Le Minh Tan, Tay Nguyen University)

**2.2 -** Molecules in stars and planets (Dinh Van Trung, Institute of Physics)

**2.3 -** Spectroscopic observations of stars and planetary atmosphere (Dinh Van Trung, Institute of Physics)

**2.4 -** Asteroids and exoplanets (Yoichi Itoh – NHAO, Univ. of Hyogo)  
**2.5 -** Observations of Exoplanet Transits (Yuya Hirano, NHAO, Univ. of Hyogo)

**2.6 -** Super Star Cluster (Nguyen Tung Lam)

**2.7 -** Interstellar Dust: Measurement of Extinction by Star Count (Dobashi, Tokyo Gakugei University)

**2.8 -** Photon Dominated Regions and Spectroscopy (Le Ngoc Tram (Max-Plank Institute for Radio Astronomy)

**2.9 -** Definition of galaxies (Nguyen Binh, University of Washington)  
**2.10 -** A low-frequency view of galaxy clusters (Hoang Ngoc Duy, Hamburg Observatory)  
**2.11 -** SETI: how to scientifically hunt for aliens? (John Hoang, Berkeley)