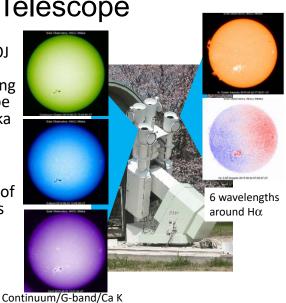
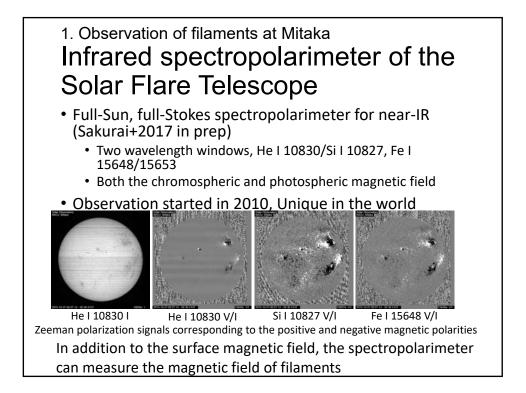
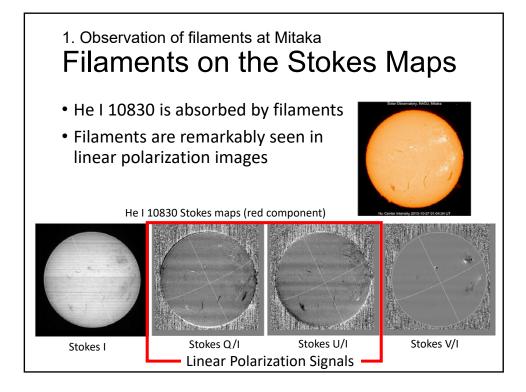


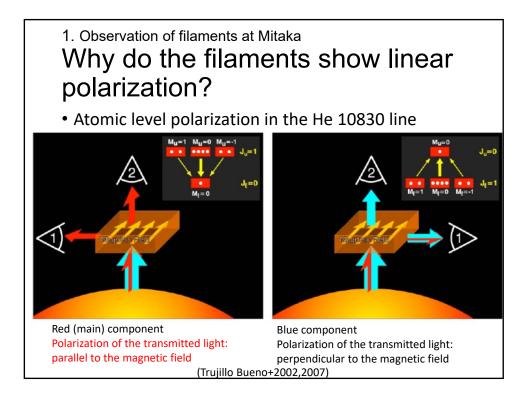
1. Observation of filaments at Mitaka Solar Flare Telescope

- The Solar Group of NAOJ is operating some small solar telescopes including the Solar Flare Telescope (Sakurai+1995) at Mitaka for synoptic solar observations
- Currently we are conducting some kinds of imaging observations as well as infrared spectropolarimetry to measure magnetic field









1. Observation of filaments at Mitaka Measurement of the magnetic field in prominences/filaments

- It was revealed that filaments produce remarkable linear polarizations of the He I 1083.0 nm line due to the magnetic field
- The mechanism of the generation of the polarization by the magnetic field was understood
- Now magnetic field in filaments can be deduced based on the polarimetric observations of the He I 1083.0 nm line

