

Infrared Stokes Polarimeter
on the Solar Flare Telescope
NAOJ, Mitaka Campus

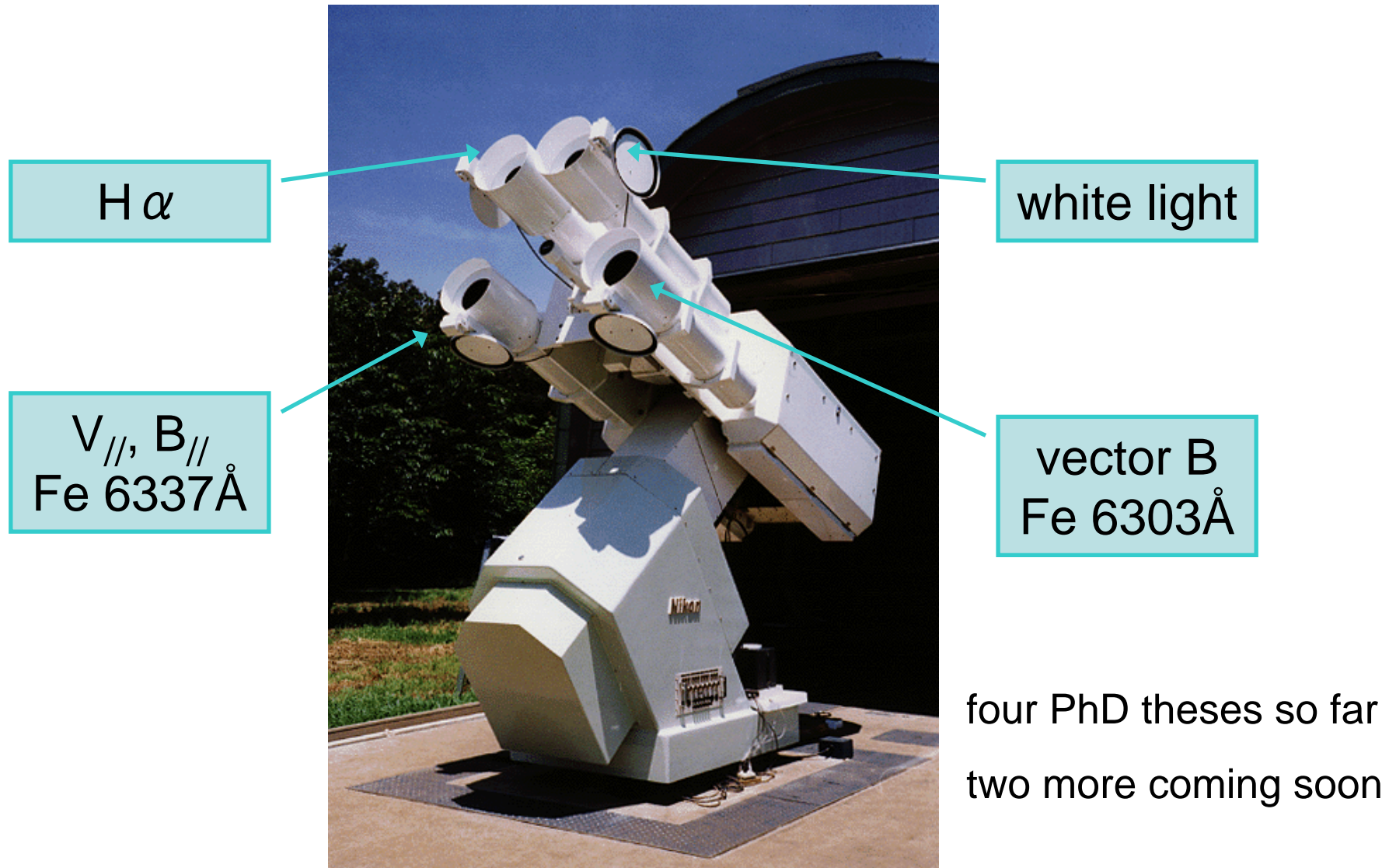
T.Sakurai



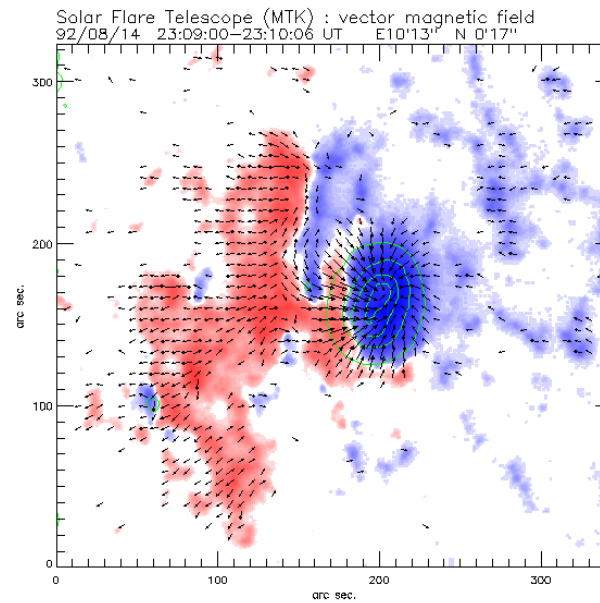
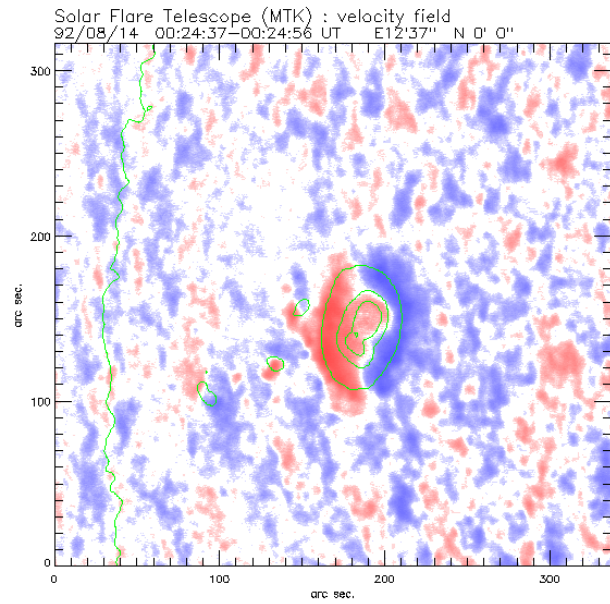
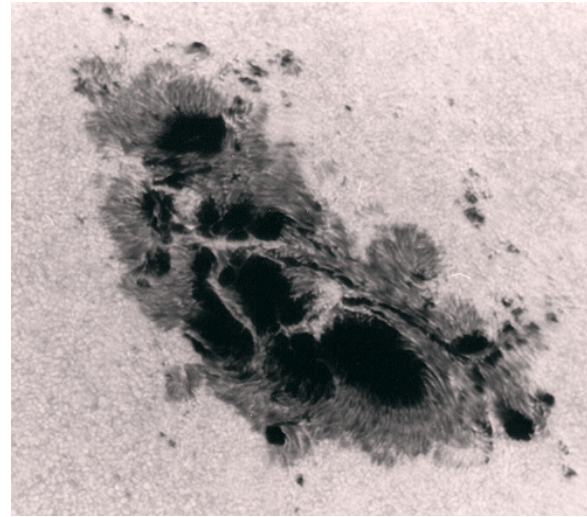
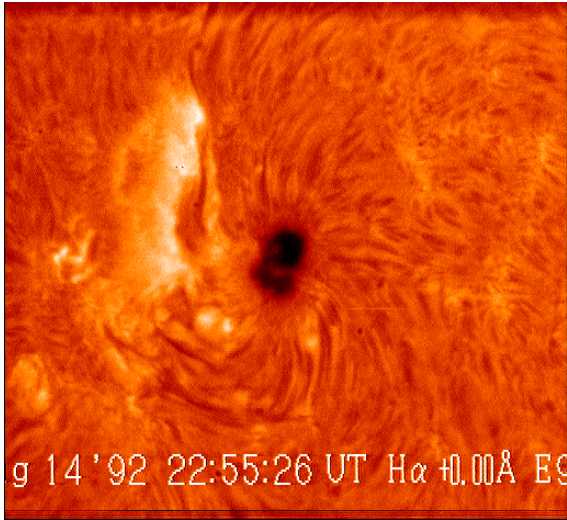
Solar Flare Telescope

you are here

original configuration (1991)



four PhD theses so far
two more coming soon



current and planned configuration

Stokes Polarimeter
1.56 μm , 1.083 μm

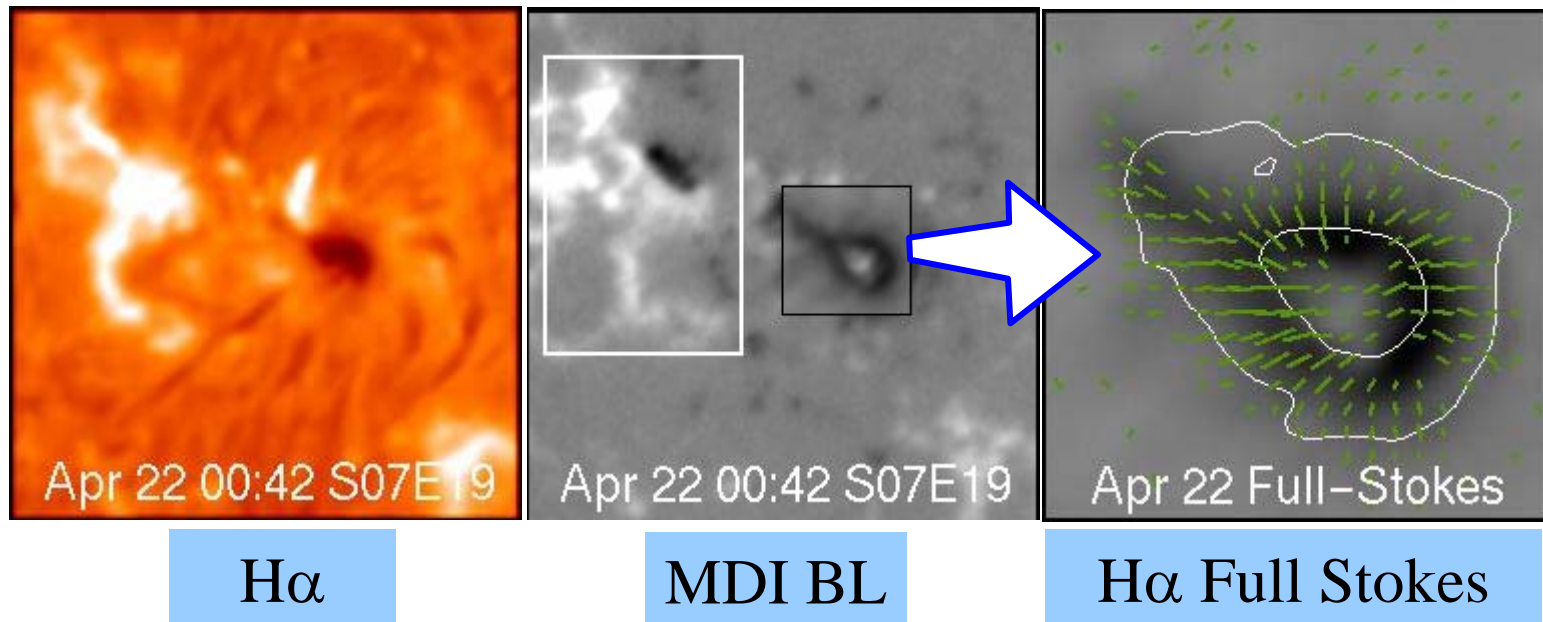
vector B
Fe 6303Å



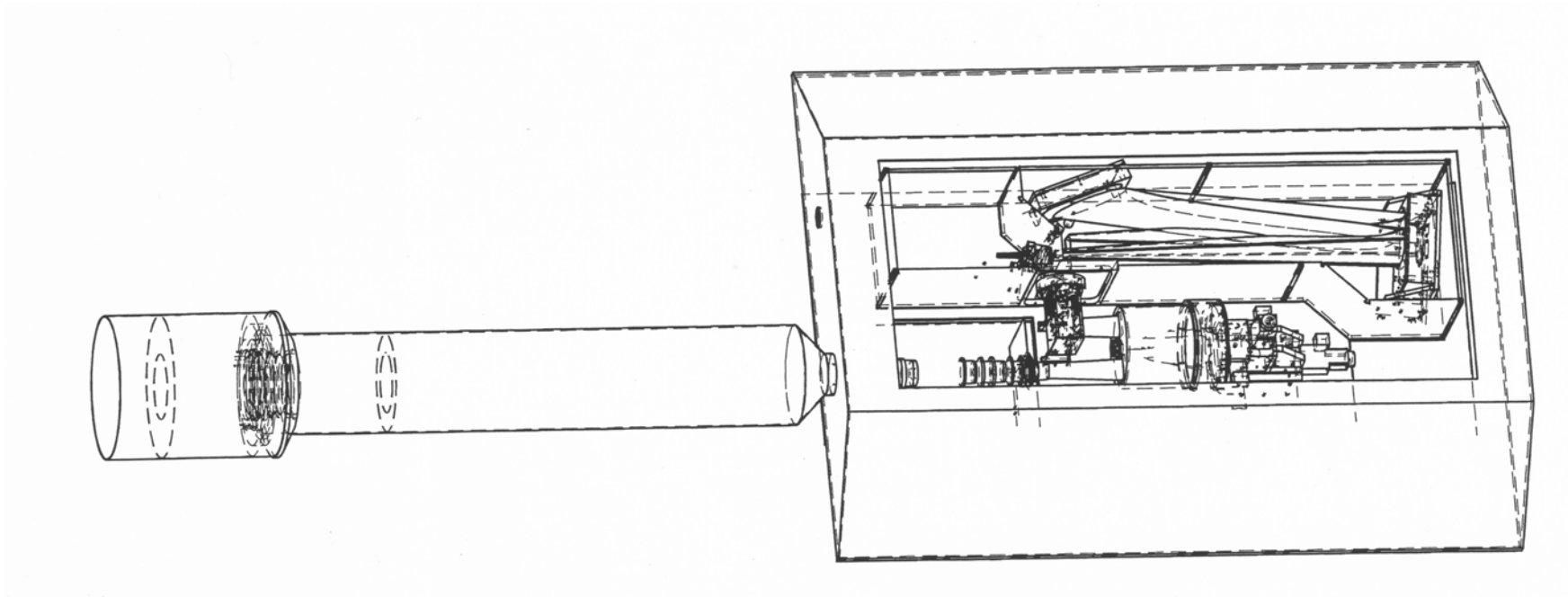
ferroelectric
liquid crystal
modulators

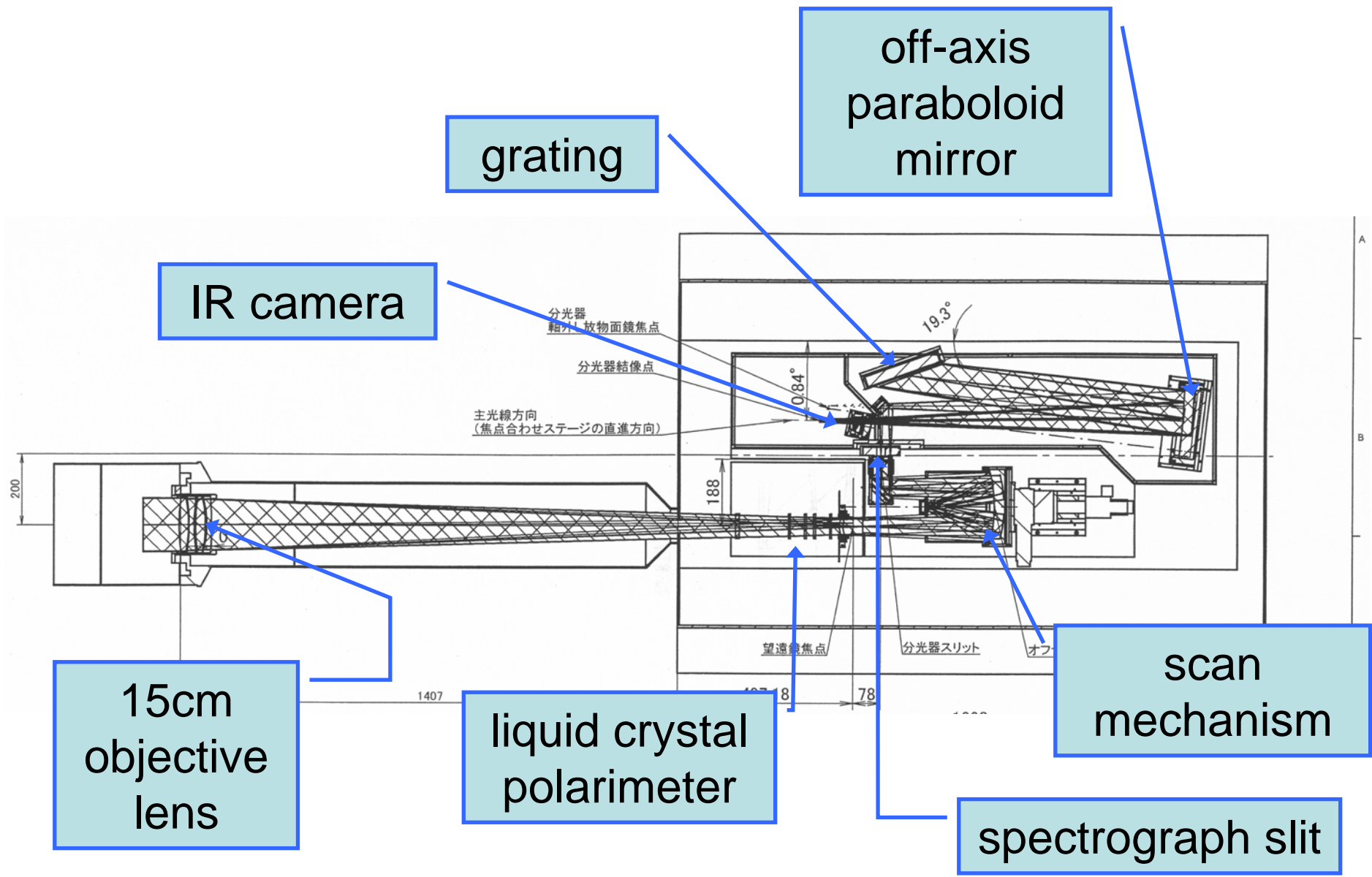
vector B
H α

H α Full Stokes Polarimetry

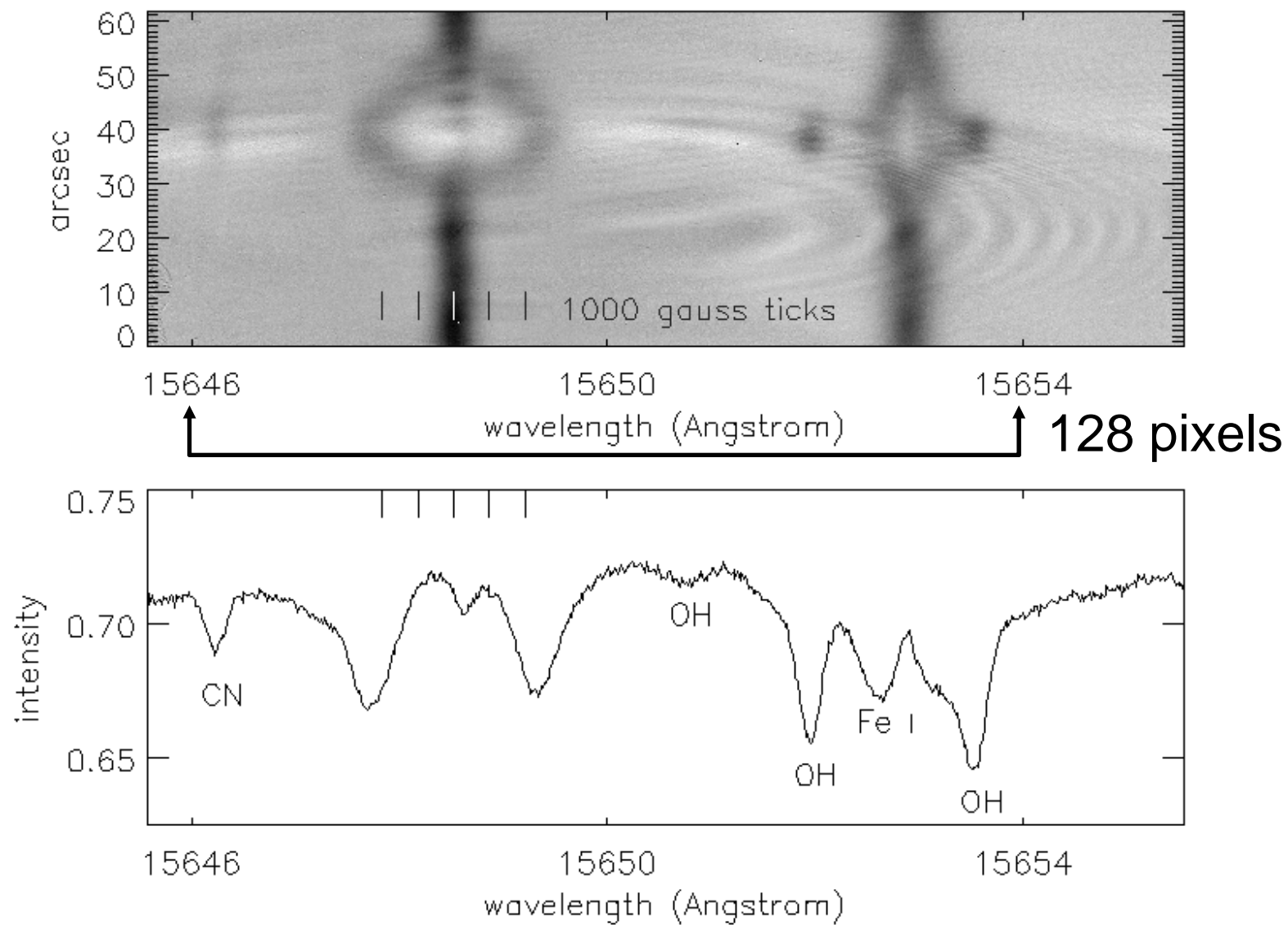


- 15cm aperture
- full disk scan (two swaths), 1.75"/pixel
- 6.3 μm /pixel @ 1.56 μm , 4.1 μm /pixel @ 1.083 μm
- InGaAs camera, 512X640 pixels, 60fps





Fe I 1.56 μ m



to be operational in 2006 winter

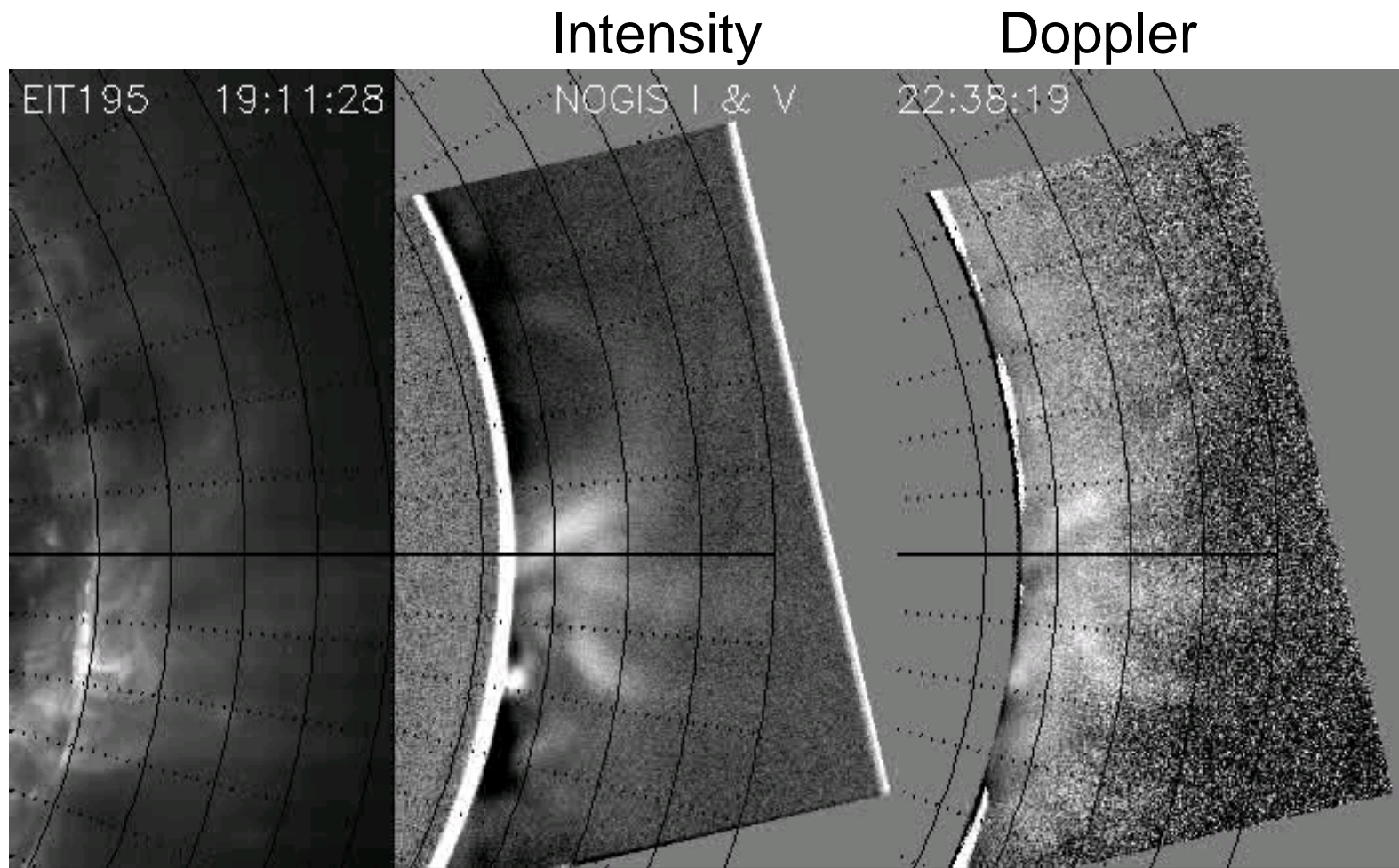


2005 April 7

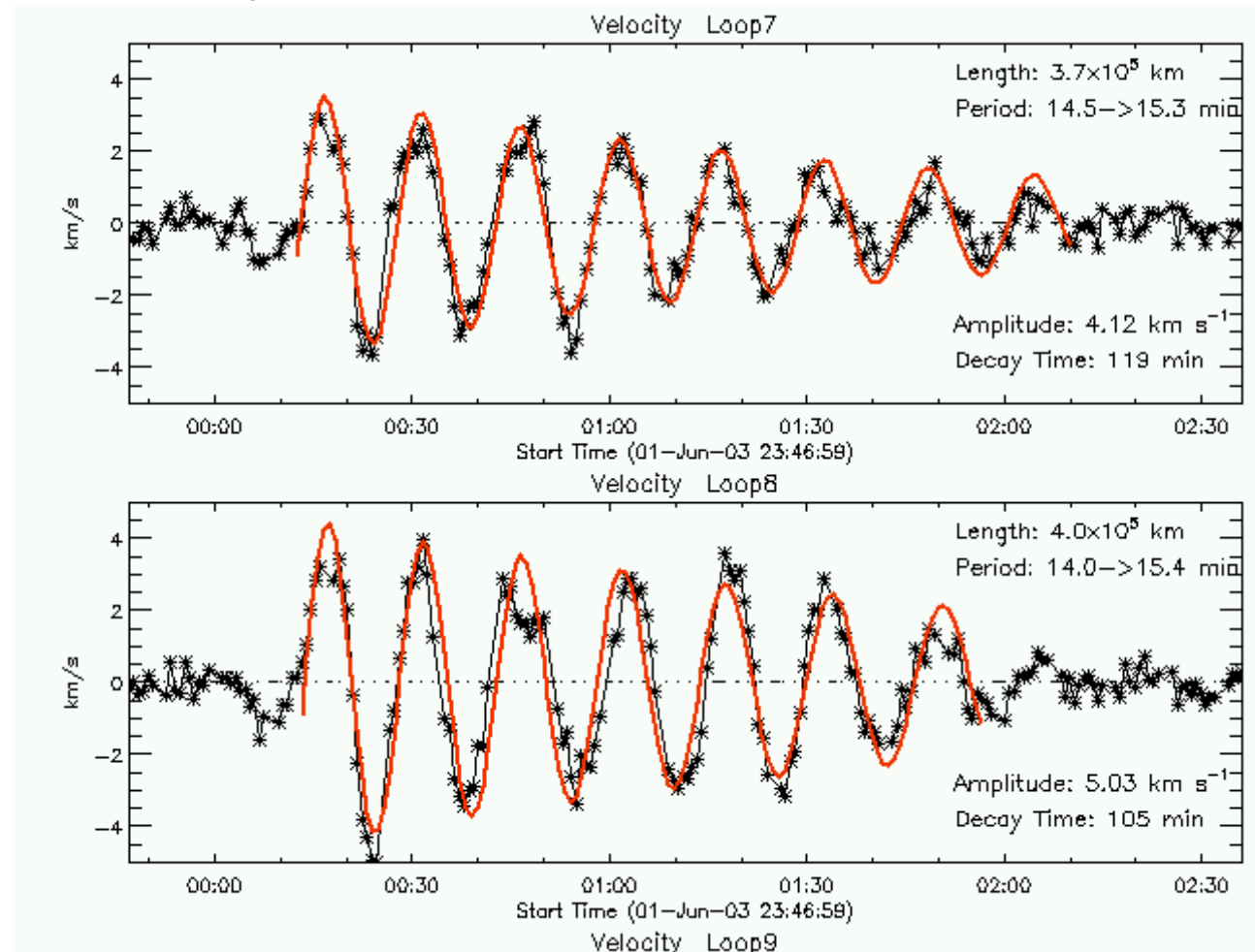
Norikura Solar Observatory, NAOJ



Green-Line (Fe XIV, 2MK) Doppler Movie
(Norikura Solar Observatory, NAOJ)
Coronal Loop Oscillation Excited by a Flare



period ~ 10-15 min, amplitude ~ 5km/s



K.Hori et al., in preparation