

Speckle interferometry for testing CMOS

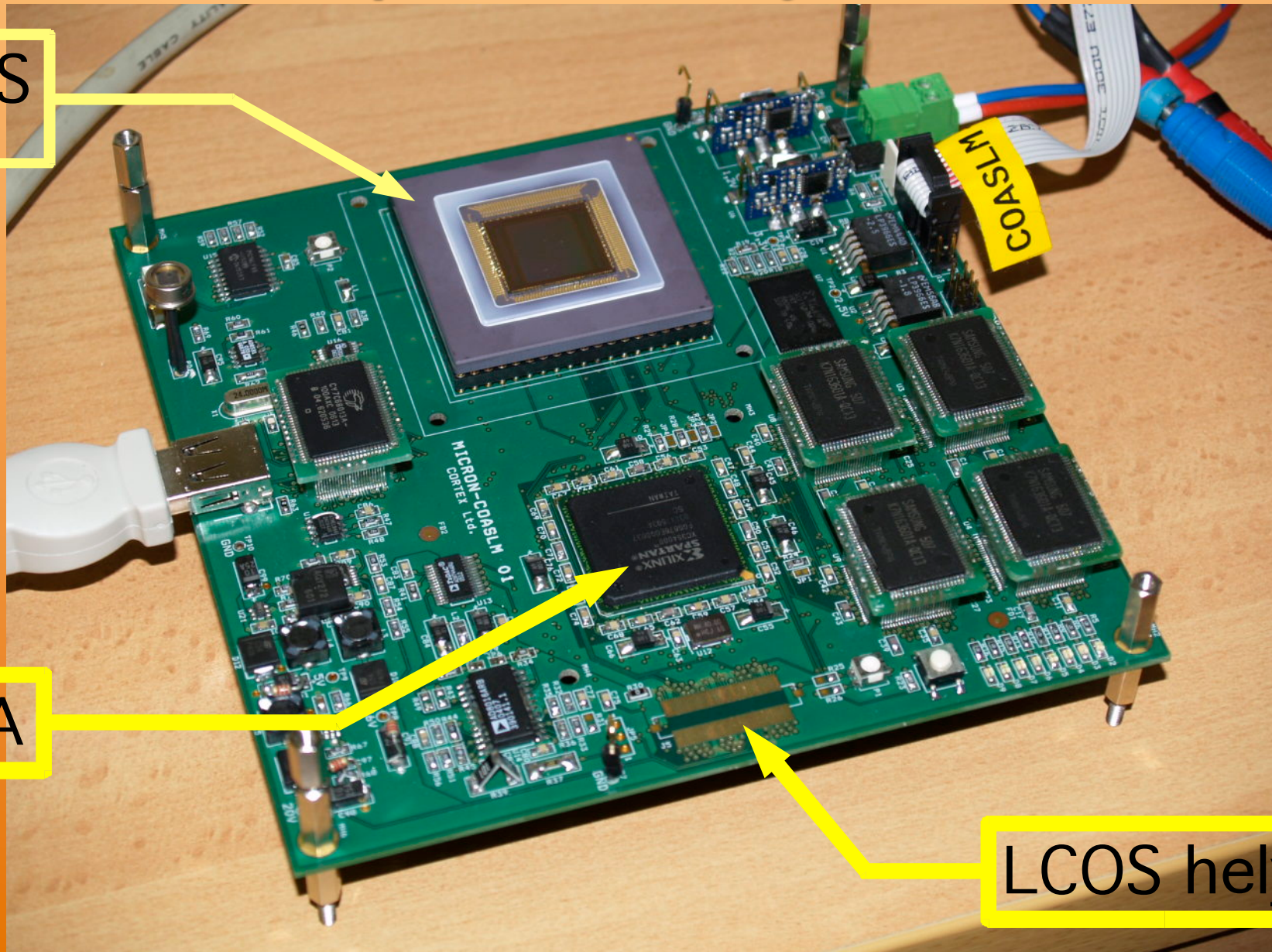
György Mező MTA Heliophysical Observatory
Zsolt Regály MTA CSKI
Örs Detre ELTE TTK
László Orzó MTA SZTAKI

Compact AO system

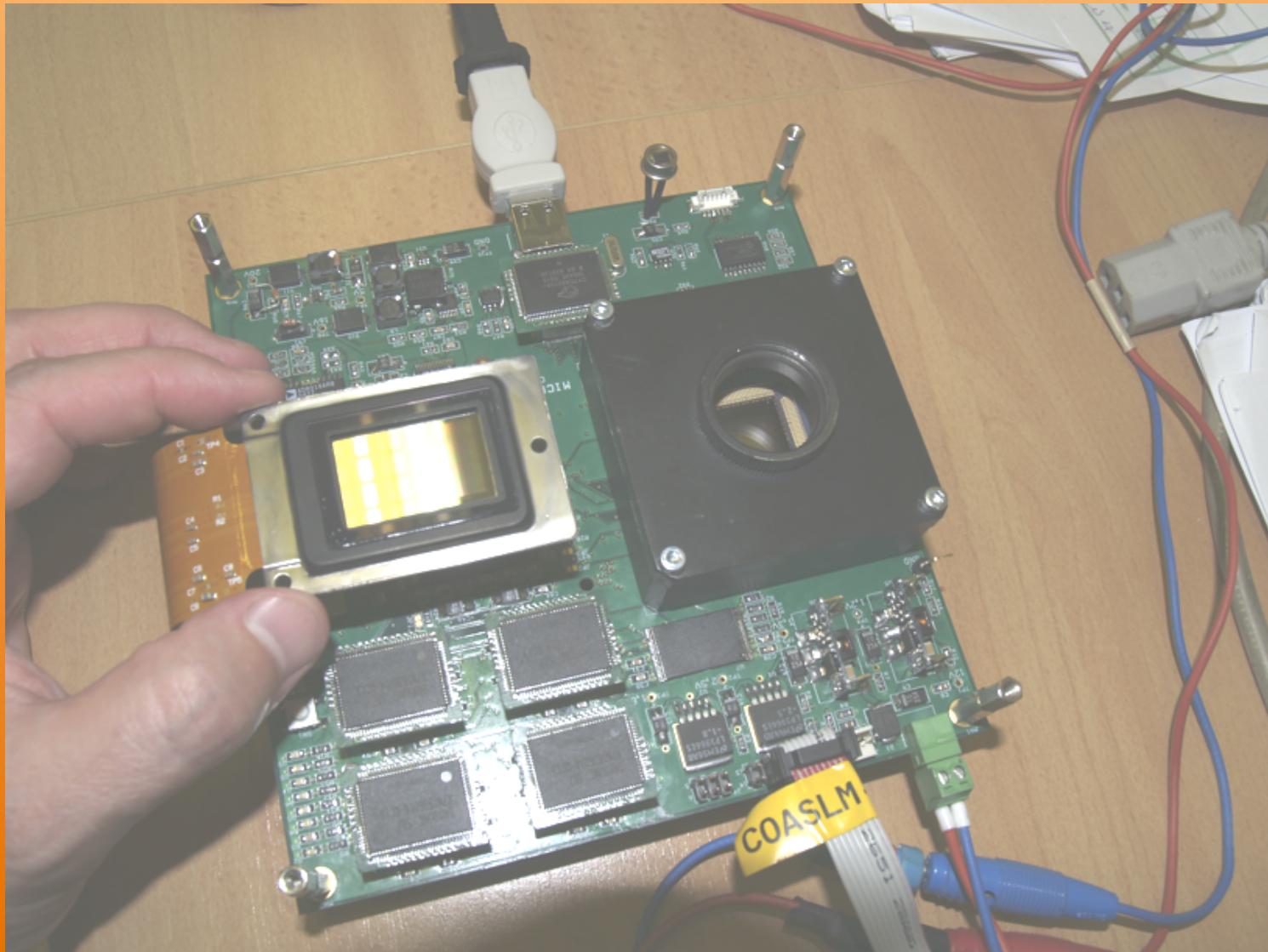
CMOS

FPGA

LCOS heliye



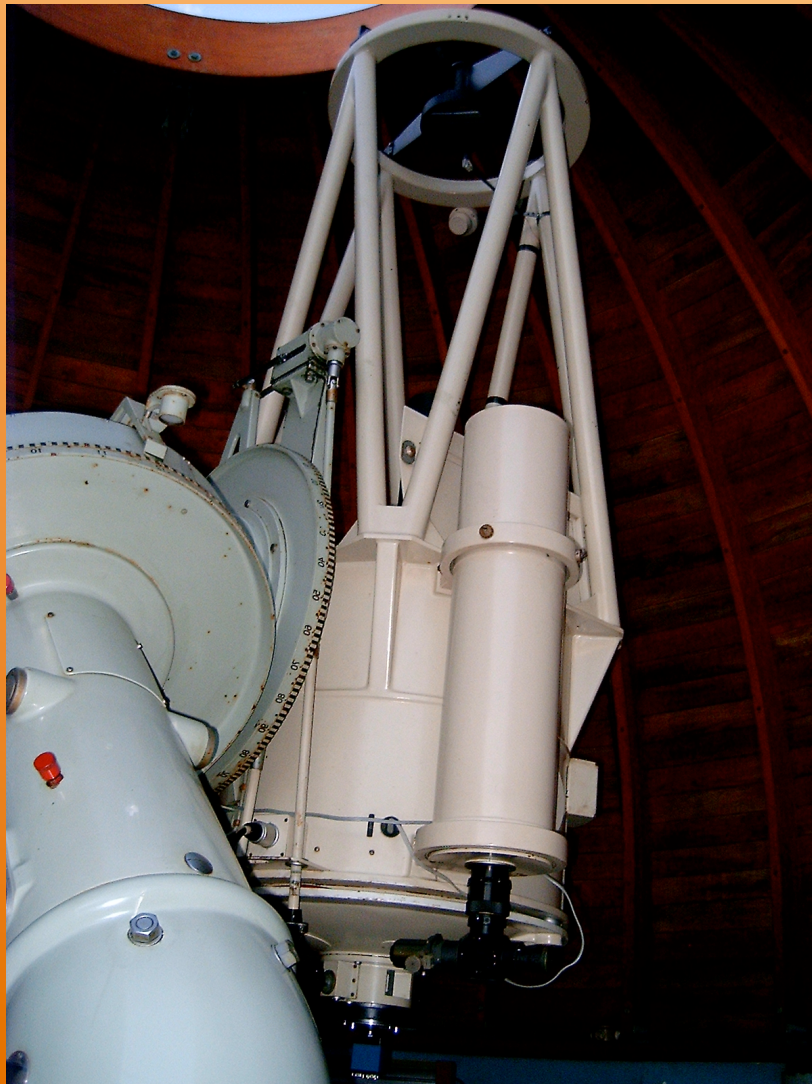
CMOS (1280x1024 ps.) 500 frame/s for
correlating S-H wavefront sensor
LCOS (1280x768 ps.) 540 frame/s as actuator
FPGA for controlling and parallel computing



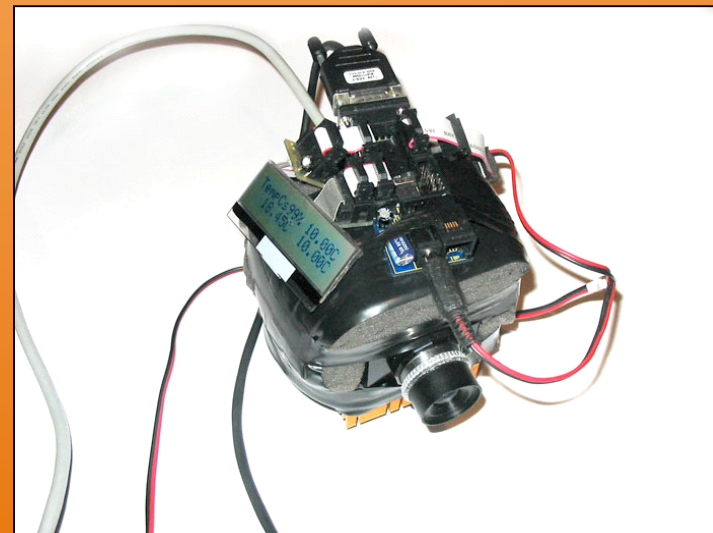
Piszkéstető 936 m, 2006 December, inversion



50 cm Cassegrain Telescope



Prosilica CV 1280 CMOS
firewire camera

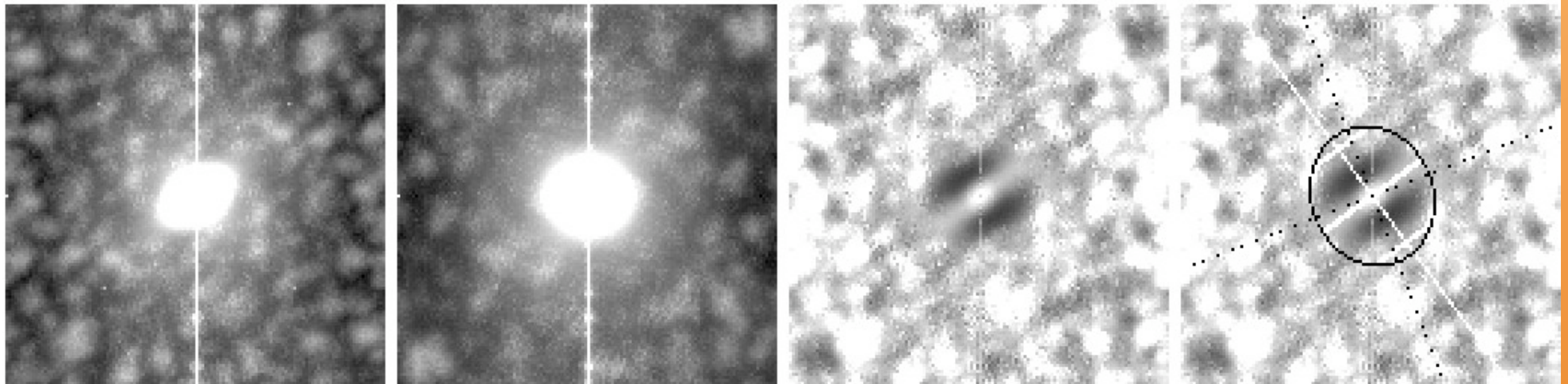


Short exposure images of Vega

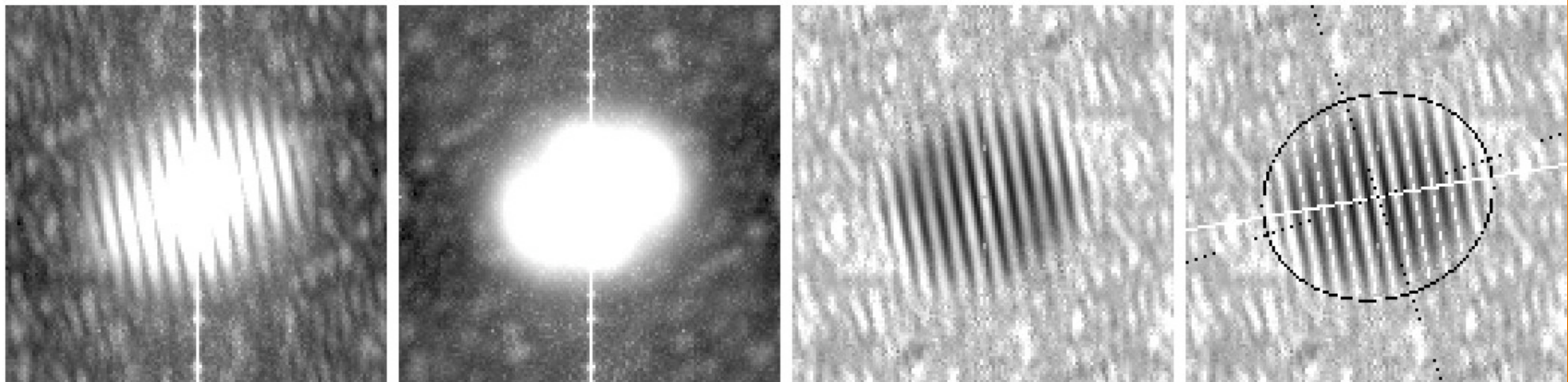


Separation and Orientation of Binaries

WDS 04100+8042 (2007 02 09-10)



WDS 06462+5927 (2006 12 29-30)



Why does work the speckle interferometry with distant reference star ?

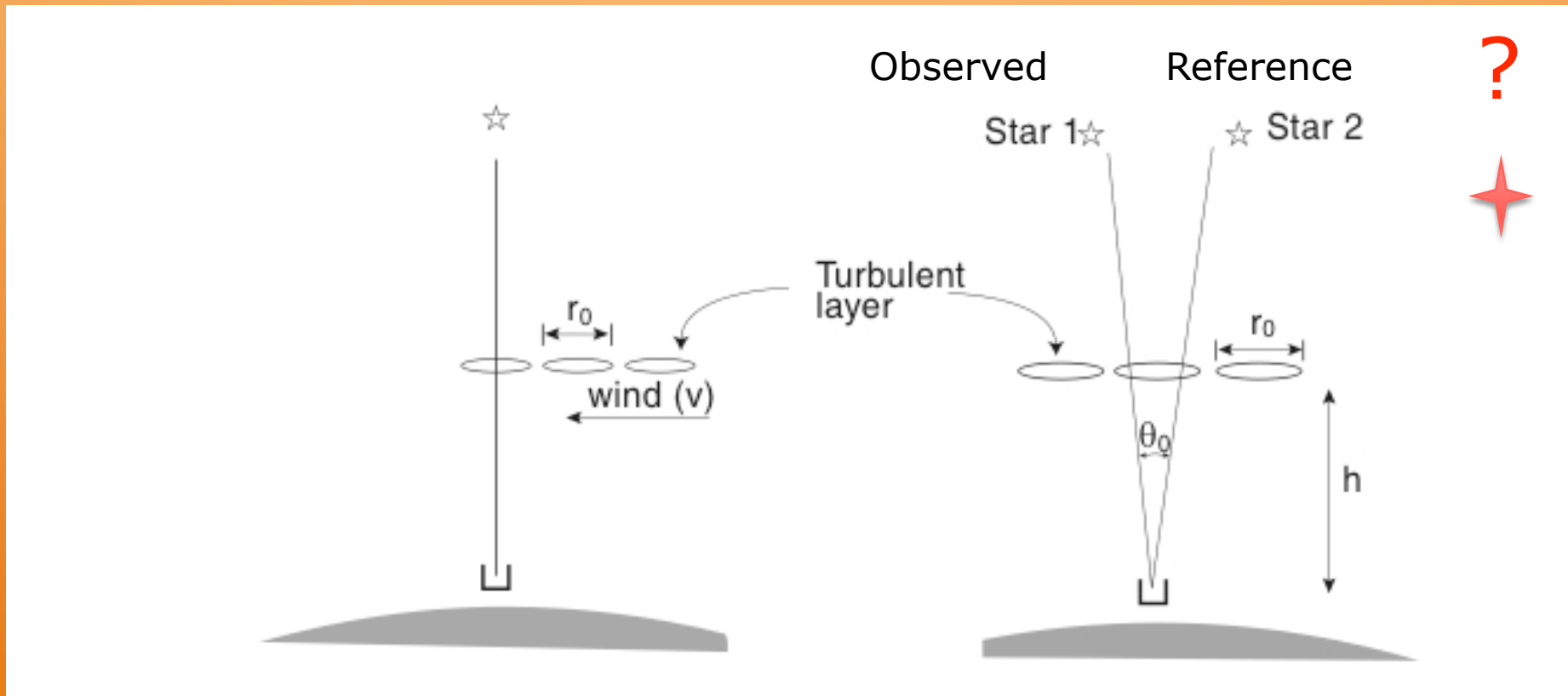


Figure from Astrophysical Techniques, C. R. Kitchin