The Large Synoptic Survey Telescope Corner Raft Readout Electronics

LSST in a Nutshell

• The telescope will be located in northern Chile.

• The LSST is an integrated survey system designed to conduct a decade-long, deep, wide, fast time-domain survey of the optical sky. It consists of an 8-meter class wide-field ground based telescope, a 3.2 Gpix camera, and an automated data processing system.

• The LSST will enable a wide variety of complementary scientific investigations, utilizing a common database and alert stream. These range from searches for small bodies in the Solar System to precision astrometry of the outer regions of the Galaxy to systematic monitoring for transient phenomena in the optical sky. LSST will also provide crucial constraints on our understanding of the nature of dark energy and dark matter.

Sven Herrmann - SLAC
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201 x 16Mpix CCD

3.2Gpix camera includes 4 corner rafts:
- guide sensors provide input for the pointing servo loop
- wavefront sensors provides input for the active optics system

Corner Raft Tower includes all electronic for a 48 channel CCD controller with a 18bit video chain (@500kHz pixel clock per channel)