

TMT Forum breakout session: High-resolution Spectroscopy

Wednesday 8 November: Splinter session-I (14:30-17:30)

Contributed Science Cases (Chair: N.K. Rao)

14:00–14:15	P. Chaturvedi	TMT for RV studies - exoplanet systems
14:15–14:30	S. Mondal	Understanding of the atmospheric properties and binarity in very low-mass stars, brown dwarfs and exoplanets
14:30–14:45	P. Hasan	Early Dynamical Evolution of Star Clusters
14:45–15:00	A. Bandyopadhyay	Connecting Globular Clusters and the Galactic Halo
15:00–15:30	Tea/Coffee Break	
15:30–16:00	W. Aoki	The view from Japan: TMT-HRS
16:00–16:30	T. Greathouse	Past, Present, and Future of High-Spectral Resolution Mid-Infrared Observations
16:30–17:00	Tae-Soo Pyo	NIR high resolution spectroscopy – Present and future
17:00–17:30	Initial discussion	

Thursday 9 November: Splinter session II (09:00-12:00)

09:00–10:00		Discussion (chair: P. McGehee) - Optical vs infrared (redward of the <i>K</i> band) - Stability vs throughput - Multiplexing, IFU, resolution requirements - Polarimetry needs
10:00–10:30	Tea/Coffee Break	
10:30–11:30		White paper (chair: R. Srianand) - Consideration of first-light instruments - Synergy with other next-generation facilities - Positioning of TMT, including advantages of its adaptive secondary
11:30–12:00	Richard de Grijs	Summary