

**V42a            Feasibility Study for a 8–25  $\mu\text{m}$  High-resolution Spectrograph for the  
Thirty-Meter Telescope**

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The Thirty-Meter Telescope project (<http://www.astro.caltech.edu/observatories/tmt/>) has started telescope engineering and instrument feasibility studies. One of the instrument feasibility studies is for a 8–25  $\mu\text{m}$  high-resolution spectrograph with resolving power of 100,000. The goals of the feasibility study is to define the scientific case, determine specifications that drive the telescope design, identify high risk components, specify the interface requirements and to estimate the cost. We will describe the status of this feasibility study.