

# Tamping down systematics

## *Beating down systematics*

**Eske M. Pedersen, Elana**  
Harvard University

`eskepedersen@fas.harvard.edu`

## Introduction

The Vera Rubin observatory is currently under construction and is expected to stand finished within the next year or so. Once operational, it will survey the sky titled the Legacy Survey of Space and Time (LSST) covering a 9.5 square degree field of view. This will enable the telescope to observe in 6 different color bands: (ugrizy). But before we get to the science, there are many related to the operation of the telescope! This is where we focus on ensuring that the image quality of the data taken accounts for these systematics. Even a small increase in the image quality delivered by the telescope will impact all the results we are hoping to obtain from the LSST observations, such as detecting fainter galaxies and determining redshifts of the