

## Literature Report

Transient science with the Large Synoptic Survey Telescope (LSST) will be highly dependent on the ability to characterize the target populations and the cadence with which the survey area is sampled. These are restricted by what we know about the physics of these transient systems, the competition with other science cases for specific observing strategies and the physical limitations from observing conditions and instrumentation.

### 1 General Cadence Considerations

### 2 Physical Limitations

#### 2.1 Supernovae

#### 2.2 Kilonovae

### 3 Addressing the Detection of Kilonovae with LSST

#### 3.1 Photometric Classification