Transient Mapping

Daichi Hiramatsu¹ and Corey Mutnik^{1,*}

¹Department of Physics & Astronomy,

University of Hawaii at Manoa,
2505 Correa Rd, Honolulu, HI, 96822, USA[†]

3D MAP GALAXY - VAR. STARS

- Use gri data to identify variable stars
- Use Period-Luminosity relationship to get distance
- Map 3D spatial distribution
- Determine deviation of variable stars from model
- Variations arise from non-gravitational effects

PAN-STARRS COMPARISON

• download Pan-STARRS data (running)

• Figure out dark matter distribution

- compare generated variable star list to PS RA and Dec
- validate observed variable stars

* dhiramat@hawaii.edu; cmutnik@hawaii.edu

 † Observational Astronomy 301