Goals

• Identify interesting science cases that will justify an extended Spitzer mission
  – Projects should exploit the unique aspects of Warm Spitzer: large amounts of telescope time, stable PSF, low background, multi-year observations
  – Large projects should be considered in light of improving the legacy value of Spitzer
    • Surveys with uniform depth
    • Time variability
Potentially Interesting Parameter Space

• Breadth
  – Morphological type
  – Environment

• Depth
  – Edge of disks
  – Tidal debris

• Time
  – Variability studies

Not to be missed…

• Outer disks
  – Tidal debris
  – Where does disk end?
  – Satellite systems
  – Environmental effects

• Variability
  – SN, AGB stars, YSOs

• Environment and Galaxy Evolution
  – Groups/Clusters as function of z
  – Galaxy mergers

• Galaxy Morphology
  – Stellar distribution

• AGNs
  – Hot dust
Observing Modes

• Targeted observations
  – Local Group Galaxies (variability)
  – Edge of Disks (deep)
  – AGN survey
  – Morphology survey
  – Environmental survey (group/clusters)
    • e.g., Virgo Cluster, Sculptor Group

• Required supporting data
  – AGN survey needs X-ray obs
  – Galaxy Groups need X-ray obs

SSC Support

• Data products
  – Mosaicked images (pipeline)

• PI or Community driven?
  – Sample selection will be key to success for most of these projects
  – Zero or extremely short proprietary period recommended for data associated with “huge” projects to encourage/enable community access
New Ideas

- Groups
- Survey of known AGNs