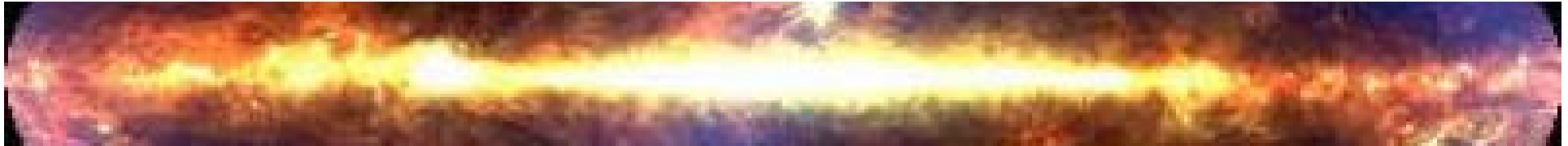


# Hi-GAL: the Herschel infrared GALactic Plane Survey



S. Molinari - IFSI/INAF, Rome  
& the Hi-GAL team

IFSI-Arcetri-Rome Univ. (Italy), CESR-LAM-IAS-Saclay (France), RAL-Hertsfordshire-Liverpool-Cardiff-UCL (UK), IPAC-SSC-JPL-CfA (USA), Toronto-CITA-Laval (Canada)

- Measure the star formation rate and history Galaxy-wide
- Obtain the complete inventory of cold dust in the Galactic Plane
- Establishing the existence and nature of star formation thresholds as a function of ISM properties across a full range of galactocentric radii metallicity and environmental conditions
- Determining the relative importance of global vs local mechanisms that give rise to star formation.
- Provide templates, recipes and prescriptions for Xgal science

352

350

348

# Hi-Gal

- 70-500 $\mu$ m photometric imaging using the PACS and SPIRE cameras (5 bands)
- Fast Scanning in Parallel Mode with proper redundancy
- Sensitivity  $\sim 20\text{mJy @}1\text{s}$
- $0^\circ < l < 360^\circ$  -  $|b| < 1^\circ$