

HSO Far-Infrared Spectroscopy of high-redshift Luminous Infrared Galaxies

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We propose a comprehensive survey of the far-infrared fine-structure lines $[OI]_{\mu\text{m}}$, $[OIII]_{\mu\text{m}}$ and $[NIII]_{\mu\text{m}}$ for a sample of Spitzer/MIPS $160 \mu\text{m}$ selected galaxies with redshifts in the range $0.4-1.2$. The lines will be used primarily to probe the ISM at high redshifts and also to construct FIR diagnostic diagrams (Sb vs AGN).

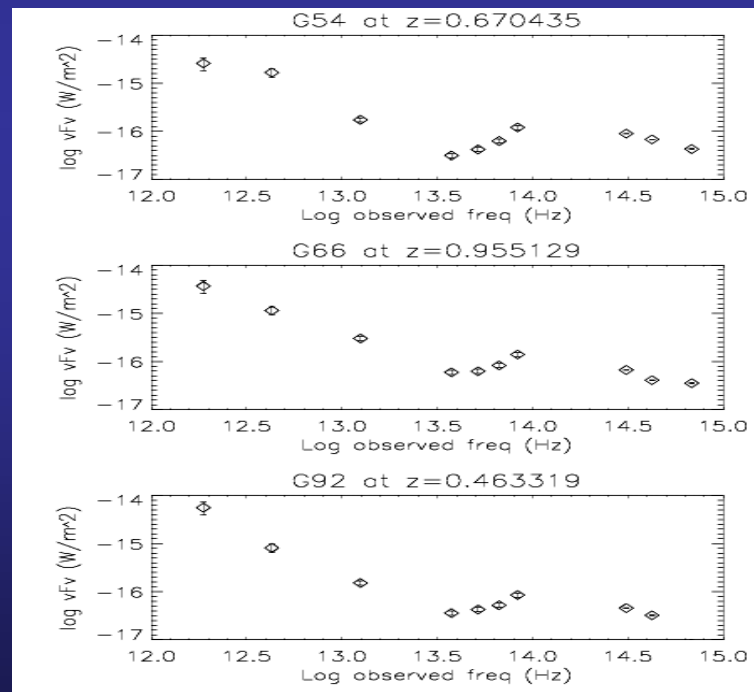


Figure 1: multiwavelength SEDs of MIPS $160\mu\text{m}$ selected sources

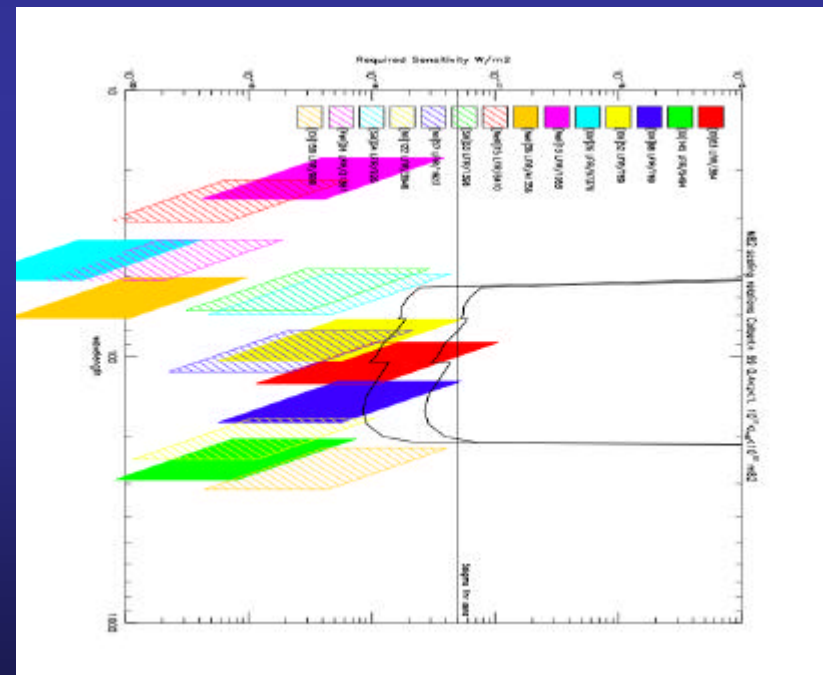


Figure 2: PACS sensitivity estimates