We propose a comprehensive survey of the far-infrared fine-structure lines [OI]$\mu$m, [OIII]$\mu$m and [NIII]$\mu$m for a sample of Spitzer/MIPS 160 $\mu$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$\mu$m selected sources

Figure 2: PACS sensitivity estimates