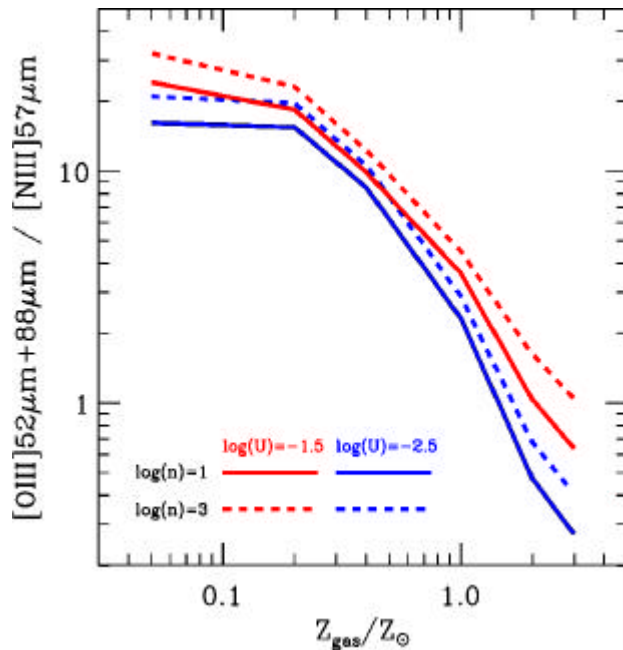


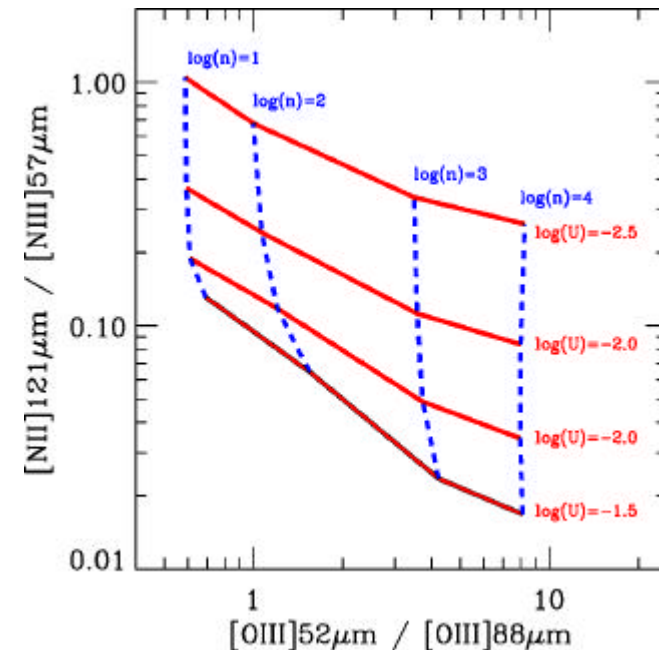
# THE METAL CONTENT OF GALAXIES

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Determine the gas metallicity of galaxies by using far-IR diagnostics  
→ piercing dust obscuration (which affects optical studies)



→ [OIII] 52mm  
[OIII] 88mm  
[NIII] 57mm  
[NII] 121mm



Sample of ~30 galaxies at  $z \sim 0.1$  ([OIII]52 mm in PACS)  
spanning a wide range of masses, ages, SFR and dust mass

Goals: re-assess the mass-Z, age-Z, SFR-Z, dust-Z relations  
(→ galaxy evolutionary scenarios) from the FIR perspective