Identifying Faint Galaxies

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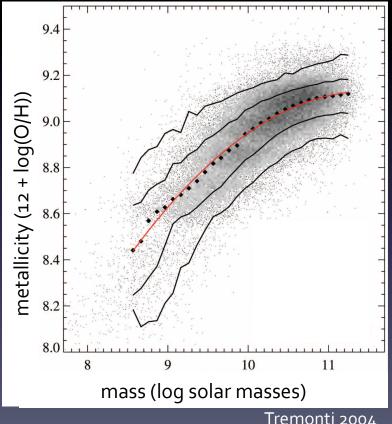
Advisor: Professor Crystal Martin UCSB Department of Physics

Thursday, August 23rd, 2012





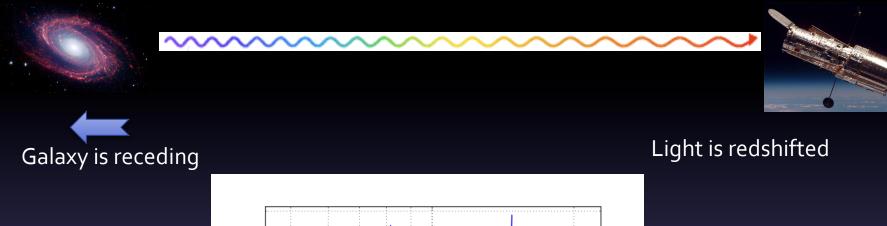
Long Term Goal: Study Mass Metallicity Relation

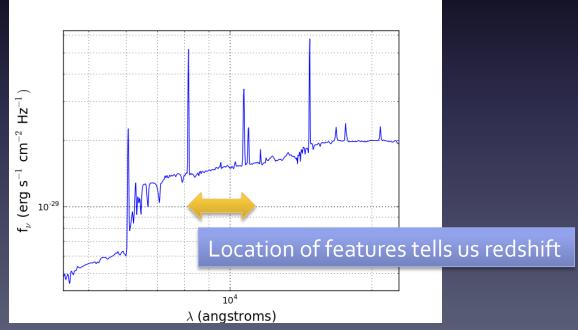


Spectroscopy: Initial Identification

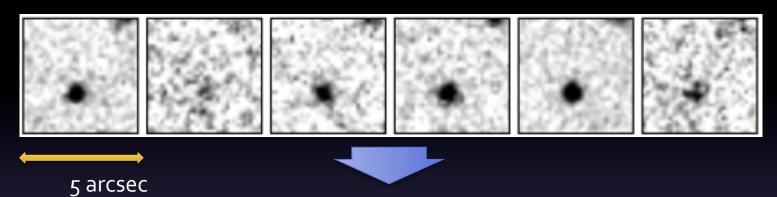


Redshift and Cosmology

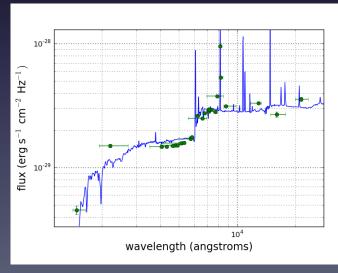


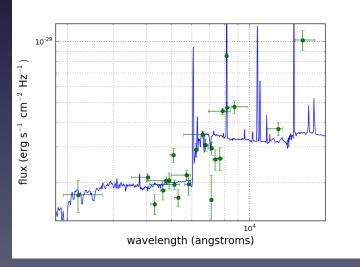


Identifying Galaxies



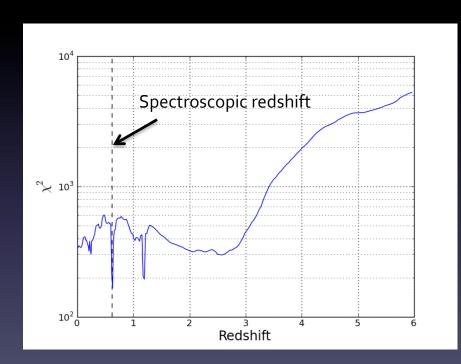
Template Fitting

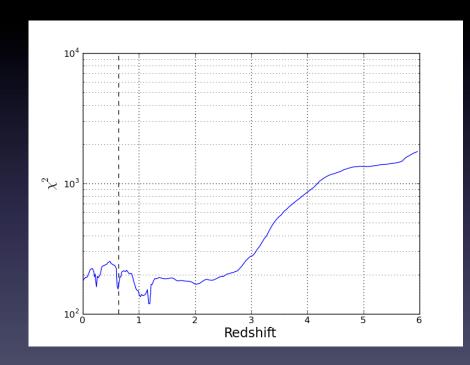




Good Fit Loose fit

Results: Template Fitting

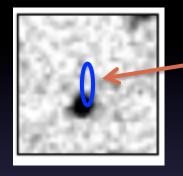




Most showed some sort of dip at target redshift

Statistics: Errors Unlikely

Sky around object



Position uncertainty

- 249,907 objects in field
- Area is 5,184,0000 arcsec²
- Uncertainty is 0.47 arcsec²
- Typical number of objects in ellipse: 0.002

Acknowledgements

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Questions?