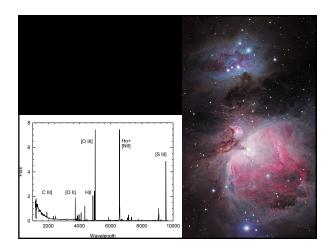
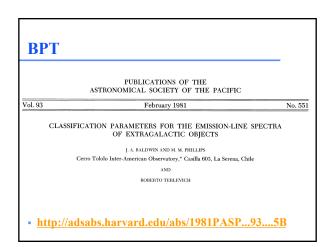
Temperature indicators [Ne III] /(3869 + 3868)/(3343) [O III] /(5007 + 4959)/(4363) [O III

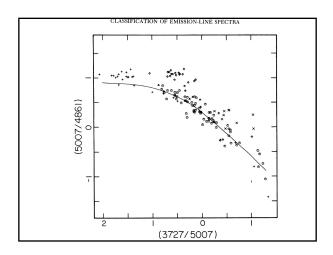
BPT Diagram & Strong-lined methods

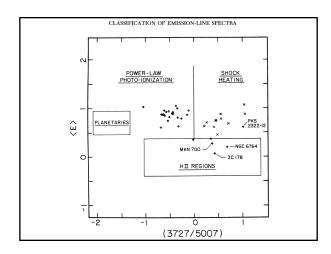
- What can we do if we cannot detect the faint lines needed to measure ratios described in AGN3 Chapter 4 & 5?
- Because object too faint, or
- Telescope not big enough?

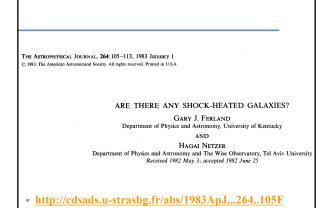


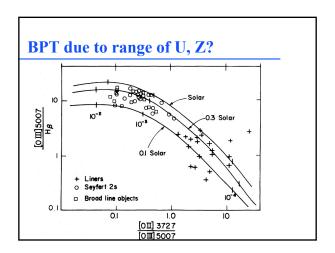












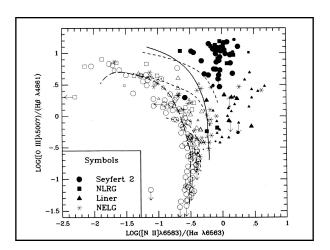
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SPECTRAL CLASSIFICATION OF EMISSION-LINE GALAXIES¹

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Purpose of BPT diagram

- BPT and VO use ratios of strong lines to classify the emission line region
 HII region, PN, AGN, shock, etc
- Others try to measure chemical composition, metallicity, or ionization parameter