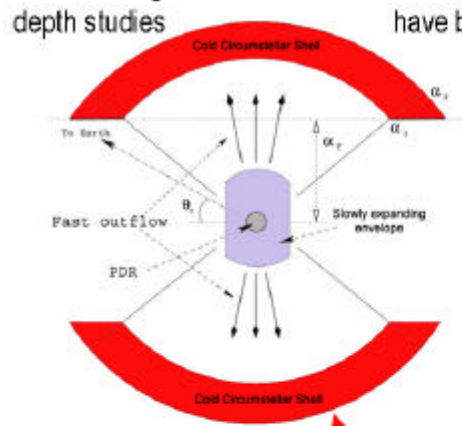


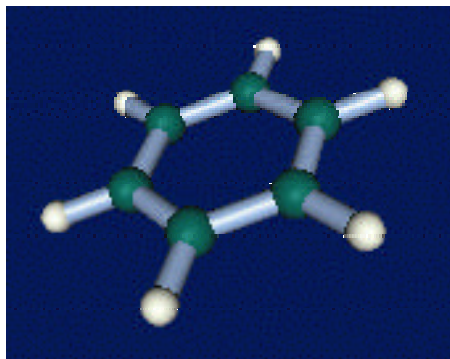
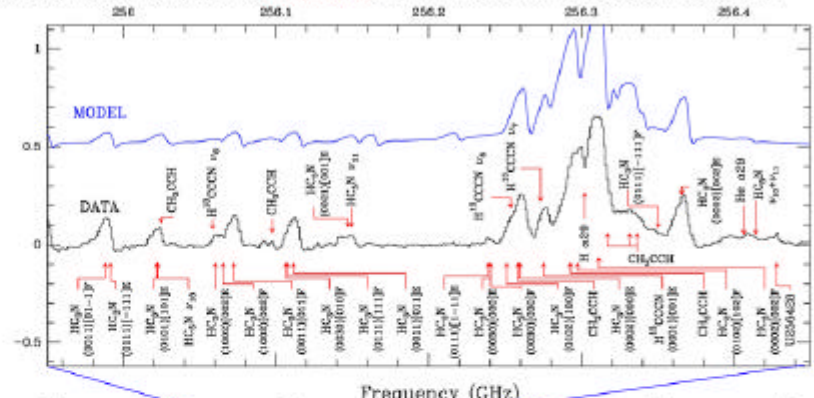
# OT-KP: LINE SURVEYS IN EVOLVED STARS

- The AGB to PN transition provides some of the more efficient laboratories in space. In particular there is formation of carbon clusters, PAH's, etc...
- Line surveys provide the most complete chemical and physical picture of the objects.
- By a proper selection of O-rich and C-rich sources in different stages of evolution, a chemical picture of the AGB to PN evolution can be obtained.

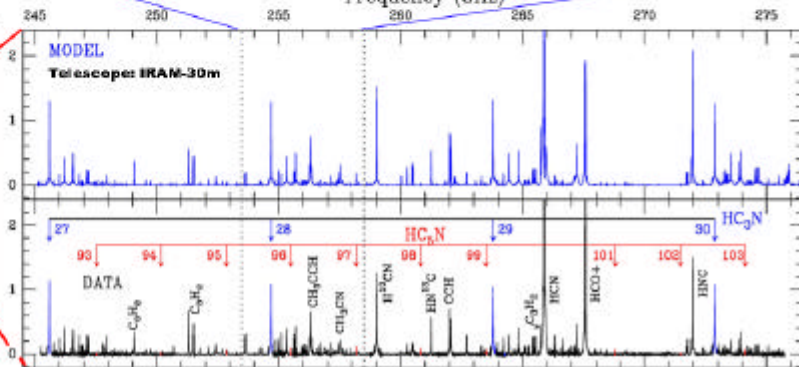
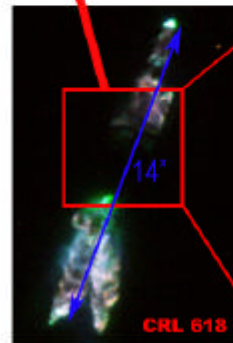
•Spectacular progress in recent years in lab. work and theoretical calculations allows a nearly complete analysis of surveys that typically contain thousands of lines.



have been conducted on several objects included in this proposal from available data, such as the model of **CRL 618** at millimeterwaves presented below.



coverages and evolved stars that this OT program a full census of  $\text{SiO}$ ,  $\text{CH}^+$ ,  $\text{CH}$ ,  $\text{CH}_2$ , ..., metal hydrides will have  $\text{SiS}$ ,  $\text{NH}$ ,  $\text{NH}_2$ , the newly explo-



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