

[초IT-02] Chemical Evolution in Star Formation

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In star formation, YSOs and their immediate surroundings are expected to evolve significantly. For example, YSOs will evolve in luminosity and temperature, as their masses grow and they evolve toward the main sequence.

In addition, the associated gas will evolve dynamically. As collapse proceeds, gas flows from cores through disks and onto protostars, and outflows grow. This variation of physical conditions throughout star formation significantly affect the chemistry in time and position. I will talk about the chemical evolution coupled with the dynamical evolution in star formation.