

Shocked Gas in the Galactic Center Molecular Cloud, Sgr B2

Y. C. Minh

Korea Astronomy Observatory

The Sgr B2 molecular cloud, which locates at about 200 pc from our Galactic center, represents a relatively extreme case of high luminosity star formation taking place in a very massive giant molecular cloud. We have observed the transitions of H₂S and SiO, which are known as shock tracers, toward Sgr B2, using the SEST radio telescope at Chile. Emissions from these molecules appear to be strongly concentrated to the prominent star forming core, Sgr B2(M). We discuss on the chemical characteristics of the region traced by these molecules, especially, in connection with sulfur and silicate chemistry and their chemical models.