
BAO001-01

Room: 301B

Time: May 24 09:00-09:15

Evolution of Life-Related Matter in the Universe

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It has been one of common interests of the human being to understand how the life was originated. Very recently a new research field -- astrobiology -- has been emerged at round 1990 as an interdisciplinary field among astronomy, chemistry, physics, geophysics, biology, and others toward the understanding of the life not only on the Earth but in the Universe.

In my talk I will discuss how to challenge to this attractive field by astronomical means, such as observations by ALMA and other telescopes. ALMA is being under construction in Chile through international collaboration among East Asia (Japan and Taiwan), North America and Europe. The first scientific observations are planned in about one year, thus it would be crucial to discuss the observation strategy to explore the life-related matter in the Universe.

Keywords: Interstellar Matter, Chemical Evolution, ALMA