

# Molecules and planets in the outer Galaxy: is there a boundary of the Galactic Habitable Zone?

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## Chemical modeling of Magellanic Clouds and low-metallicity clouds/hot cores

*Wednesday 13 November 2024 15:00 (30 minutes)*

I will review the status and results of astrochemical modeling of low-metallicity clouds, including the Magellanic Clouds. A particular emphasis will be placed on the results of grain-surface/ice chemical modeling. I will also present preliminary results from our most recent hot-core chemical models, using metallicities and gas-to-dust ratios appropriate to the outer galaxy. The influence on complex organic molecule abundances in particular will be considered

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**Session Classification:** Session-4: Star-forming regions at sub-Solar metallicity: theory