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Olga Bayandina - ALMA study of G11.92-0.61: disk-wind or YSO multiplicity?

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G11.92-0.61 MM1 is considered to be one of the best known examples of a forming proto-O star, with an accretion disk and outflow marked by various tracers. However, the more detailed structure of the region remains unclear. A comparison of the molecular line and water maser data reveals disparity in their velocity patterns, which can be explained either by the presence of a disk wind or by the binary structure of the system. An extensive survey of the ALMA Band 6 spectral lines was carried out to clarify the picture. In this talk, we will present the first results we obtained establishing the physical parameters and kinematics of the accretion disk on scales from 50 au up to 1000 au, as well as disk wind in G11.92-0.61 MM1.

Session Classification: Milky Way