Proposal Title: Do hot corinos excite 6.7 GHz methanol masers?

ABSTRACT:
The $5_{1} - 6_{0}$ A$^{+}$ methanol line at 6.668 GHz discovered by Menten (1991) is the brightest of the methanol maser transitions. Theoretical and observational studies so far suggest that these masers are excited in hot molecular cores, outflows and/or shocks in high-mass star forming regions. Recently, so-called hot corinos have been discovered in low-mass star forming regions that have conditions very similar to those of hot cores in high-mass star forming regions. We propose to search for 6.7 GHz methanol masers towards the hot corinos of NGC 1333. Discovery of any methanol masers could lead to a re-interpretation of the methanol maser data in the literature.
Frequency Ranges Planned