## OBSERVATIONS OF FORMIC ACID TOWARD GALACTIC HOT MOLECULAR CORES

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Formic acid shares structural elements with the common interstellar molecule methyl formate ( $HCOOCH_3$ ) and the elusive biomolecule acetic acid ( $CH_3COOH$ ). It is the simplest organic acid, but it has only been identified in astronomical sources by fairly weak lines in single-element telescope surveys. In order to study the successive formation of biomolecules in the ISM, we carried out a survey of HCOOH toward galactic hot molecular cores with the Berkeley-Illinois-Maryland Association (BIMA) Array. Up to five transitions with rest frequencies near 87 GHz have been detected simultaneously in three sources: Sgr B2(N), Orion, and W51. HCOOH was found to have an excitation temperature of at least 100 K. The formation of HCOOH is probably related to grain-surface chemistry in hot cores. Abundance comparisons with other molecules such as  $HCOOCH_3$  and ethyl cyanide ( $C_2H_5CN$ ) will be discussed.

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