

THE PUBLICLY AVAILABLE PREBIOTIC INTERSTELLAR MOLECULAR SURVEY (PRIMOS):  
EXPANDING SPECTROSCOPIC CHARACTERIZATIONS, EXTENDING TO NEW SOURCES, AND ADDING TO  
THE KNOWN MOLECULAR INVENTORY

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The publicly available Green Bank Telescope **PRE**biotic **I**nterstellar **MO**lecular Survey (PRIMOS) conducted towards Sgr B2(N) provides high resolution, high-sensitivity observations with near-continuous frequency coverage from  $\sim 300$  MHz - 50 GHz. Of the eleven new molecular detections in the last year, five (45%) are a direct result of the PRIMOS observations. Further, these observations have recently been used to detect the predicted, but previously unobserved,  $J = 1 - 0$  and  $J = 2 - 1$  transitions of the newly detected  $l$ -C<sub>3</sub>H<sup>+</sup> ion. Here, we discuss the analysis of these transitions, as well as recent work to extend the PRIMOS observations to three new regions of interest: VY Canis Majoris, IRC+10216, and NGC 2023. Finally, we highlight the utility of cm-wave surveys in new molecular detections, as well as the value of publicly-available surveys in the approaching era of data-enabled, analysis-limited astrochemistry.