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Setting up a direct search for continuous gravitational wave signals using the Band Sample Data collection

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We present a preliminary study for the setup of a directed search for continuous gravitational waves, based on the so-called Band Sample Data (BSD) collection of LIGO and Virgo data. In directed searches for continuous wave signals, the sky location of the source is well-known while the frequency and the spin-down parameters are unknown. Using the BSD collection it is possible to apply the barycentric corrections for a given sky direction in a computationally cheap way, thus allowing the use of longer coherence times, and increasing the search sensitivity.

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