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Extending pulsar timing sensitivity below the nanohertz range

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We present a first search for continuous ultra-low-frequency gravitational wave sources using secular variations of pulsar parameters. This new methodology extends the sensitivity of pulsar timing arrays well below the nanohertz range. The results are complementary to the typical analysis and provide competitive sensitivity, with the potential to observe supermassive black hole binaries within the next ten years

Presenter: DEROCCO, William

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