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## The 5n-vector ensemble method

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We present a multiple test for the targeted search of continuous gravitational waves from an ensemble of known pulsars, combining multidetector single pulsar statistics defined through the 5n-vector method. In order to maximize the detection probability, we describe a rank truncation method to select the most promising sources within the ensemble, based on the p-values computed for single pulsar analysis. We also present the results obtained considering a set of 220 known pulsars and the O3 LIGO and Virgo datasets. No evidence of a GW signal from the ensemble was found, so we set 95% credible upper limit on ensemble parameters.

Primary author: D'ONOFRIO, Luca (Istituto Nazionale di Fisica Nucleare)

**Co-authors:** DE ROSA, Rosario (Istituto Nazionale di Fisica Nucleare); PALOMBA, Cristiano (Istituto Nazionale di Fisica Nucleare)

Presenter: D'ONOFRIO, Luca (Istituto Nazionale di Fisica Nucleare)

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