



Contribution ID: 768

Type: **Talk in the parallel session**

## **Timing PSR J2222-0137 - an important new laboratory for relativistic gravity**

*Wednesday, 7 July 2021 09:30 (25 minutes)*

In this talk, I will review the current status of the timing of PSR J2222-0137, which promises to be one of the most important laboratories for testing the nature of gravitational waves, for limiting the variation of Newton's gravitational constant, and for testing non-perturbative deviations from general relativity in the behavior of gravity (in particular the phenomenon of "spontaneous scalarization"). The occurrence of this phenomenon has been basically ruled out with our current measurements.

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**Session Classification:** Pulsar Power in Physics and Astrophysics and Pulsars and Pulsar Systems at High Energies

**Track Classification:** Neutron Stars: Pulsar Power in Physics and Astrophysics and Pulsars and Pulsar Systems at High Energies