

Search for continuous gravitational waves from PSR J2144-3933 using a magnetically-levitated torsion antenna

Koji Ishidoshiro (University of Tokyo)

M. Ando, H. Takahashi, A. Takamori, K. Okada, Y. Aso, N. Kanda, K. Tsubono

Magnetically-levitated torsion gravitational wave (GW) antenna

Proposed to search for low-freq. GWs on Earth at 7th Amaldi

Target sensitivity $h \sim 10^{-18}$ at 0.1 Hz

Presented prototype experiment at 8th Amaldi and 1st LISA-DECIGO workshop

In my poster



Review the torsion GW antenna

Report search for continuous gravitational waves

from PSR J2144-3933 using the prototype

The pulsar

has the longest period (8.5 sec) among the known radio pulsars.

lies far beyond the death line.



Interesting target