

Update on the European Pulsar Timing Array

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Abstract. The European Pulsar Timing Array (EPTA) is one of the three global Pulsar Timing Array communities, aiming to use the clock nature of pulsars to detect gravitational waves. In this talk, I will provide an introduction to the current status of EPTA pulsar observations and present an overview of the recent results. I will also give an update on the progress of the Large European Array for Pulsar (LEAP) project, which attempts to coherently combine the data from the five biggest single site radio telescopes in Europe and make an equivalently 200-metre diameter dish. The LEAP project is an ideal effort in performing high precision pulsar timing and studying characteristics of single pulses from millisecond pulsars.
