

The Large European Array for Pulsars: Experimental setup, now and future

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Pulsar observations with interferometric technique have been widely explored and deployed in the recent years thanks to the vastly developing digital-signal-processing hardware. In most cases, these observations are performed with the pathfinders to the next generation of radio telescope. In this talk, I will present a brief introduction to the Large European Array for Pulsars, a unique pulsar observing infrastructure established within the European Pulsar Timing Array collaboration. I will introduce its experimental design, observing strategy and data acquisition systems. I will also describe the data processing pipeline developed specifically for this project in order to optimize the data quality of the outcome. In addition, I will show the scientific results obtained from the project so far, and briefly prospect for its plan in the near future.