

# Gravitational Wave Outreach with the International Pulsar Timing Array

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## **Abstract**

We outline the efforts of the International Pulsar Timing Array (IPTA) in education and outreach related to the science of gravitational waves and pulsars. Since 2010, annual IPTA meetings have gathered about one hundred members from individual Pulsar Timing Array (PTAs) collaborations, such as the North American collaboration (the North American Nanohertz Observatory for Gravitational Waves NANOGrav), the European Pulsar Timing Array (EPTA) collaboration and the Australian-based Parkes Pulsar Timing Array (PPTA) collaboration. Additionally, incoming IPTA members from South Africa, India and China have joined. At each of these meetings, one full week is dedicated to education: this “student week” is meant for undergraduate students, graduate students and postdocs interested in the fields of pulsar timing array science. Every year the student week is organized by a different collaboration and enables the gathering of students from a very wide range of countries. Lessons and activities involve learning about general gravitational wave science, pulsar timing science, the science of PTAs, as well as a career panel, student presentations and a women’s lunch. Specific working groups have recently been formed at the international IPTA level, which includes an outreach working group, in which we strive to make the IPTA student weeks more organized and effective, as well as coordinate outreach efforts from different PTAs. The outreach efforts at the IPTA level are both interesting and challenging since they involve many countries and cultures.