Radio pulsars in globular clusters

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The population of radio pulsars in the Galactic globular cluster system has nearly quadrupled in the last five years, largely due to advances in observing equipment and increased computational power. There are currently ~130 sources known, many of which can be used to study the physics of neutron stars, globular clusters, binary systems, accretion, and the interstellar medium. Several of the newly discovered systems are highly eccentric and will provide mass measurements for recycled pulsars. The new crop also contains several of the fastest rotating neutron stars known, as well as many eclipsing systems. The large population of pulsars in Terzan 5, which now stands at 33, will provide unique insight into binary formation scenarios, globular cluster dynamics, and the interstellar medium.