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Withdrawn - Recent progress in understanding the physics of radio pulsars.

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Radio pulsars are quintessential high-energy astrophysics objects. They emit most of their energy in gamma-rays, accelerate particles to very high energies and produce dense relativistic plasma. Despite decades-long efforts, we still do not have a consistent model of radio pulsars, though significant progress has been achieved in the last two decades thanks to advances in numerical models of pulsar magnetospheres. I will give a brief overview of the most recent development in the modeling of physical processes in pulsar magnetospheres using kinetic plasma simulations. The main emphasis will be on modeling pulsar polar caps, where most of the plasma in the magnetosphere and the pulsar wind is produced.

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