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Force-free magnetospheres of neutron stars

Tuesday, April 26, 2016 2:40 PM (20 minutes)

Evolution of magnetic fields in neutron stars depends strongly on the specific boundary conditions imposed at the stellar surface and the properties of the surrounding magnetosphere. In this talk, I will present various current-free (vacuum) and force-free models of neutron star magnetospheres, describe the resulting boundary conditions, and discuss their implications for the evolution of the neutron star magnetic field through simulations with a magneto-thermal evolution code.

Presenter: Dr AKGÜN, Taner

Session Classification: Afternoon session