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A simple model for pulsar glitches

Tuesday 26 April 2016 14:00 (20 minutes)

In my presentation I'll describe an analytical two-components model for pulsar rotational dynamics: the aim is to reduce the computationally difficult 3D hydrodynamics to a 1D (radial) problem. The model takes into account consistently for the non-uniform structure of the star and superfluid entrainment. I'll show how this simple model can be used to put a constraint to the mass of the pulsars that display very large glitches (like Vela).

Presenter: Mr ANTONELLI, Marco

Session Classification: Afternoon session