## Resistive, viscous MHD simulations of accretion disk around millisecond pulsar

## M. Čemeljić $^{1\ast}$

<sup>1</sup>Nicolaus Copernicus Astronomical Center of the Polish Academy of Sciences, Bartycka 18, 00-716, Warsaw, Poland

In our resistive and viscous MHD simulations of a thin accretion disk around neutron star with the dipolar magnetic field of  $10^8$  Gauss, we capture 500 millisecond pulsar rotations. Matter is accreted from the disk onto the star through a stable accretion column. We also show formation of magnetospheric ejection through stellar corona with the stellar wind. We analyze the mass accretion flux and torques on the star from various components of the flow in the system.

<sup>\*</sup>E-mail: miki@camk.edu.pl