

Accretion shock geometries in the magnetic variables

Space Telescope Science Institute - [astro]

Description: -

-
- Pacific Ocean
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- Bills, Private -- United States
- United States. -- Congress -- Private bills
- Pensacola (Fla.)
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Pacifism

Tariff

International economic relations

Florida

Speeches, addresses, etc

International relations

United States -- Claims

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Ships

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Electric power-plants

Budget -- United States

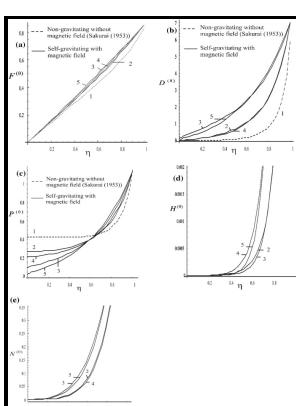
District of Columbia

Expenditures, Public

Dyes and dyeing

Farm produce

United States -- Claims



Tags: #Cataclysmic #Variables

[1409.6457v2] The critical accretion luminosity for magnetized neutron stars

The first column shows the flow velocity τ . The purpose of this High-Energy Density Laboratory Astrophysics experiment is the study of radiation hydrodynamic processes coupled with an external magnetic field as occurring in X-ray binary systems known as magnetic cataclysmic variables. Within, where the majority of the disk resides, the Maxwell stress is greater than the Reynolds stress with a ratio.

[1409.6457v2] The critical accretion luminosity for magnetized neutron stars

In this case, the radial and azimuthal components of are zero and the vertical component is set such that wavelength of the fastest growing unstable mode of MRI is equal to a quarter of the vertical size of our computational domain , where is the vertical Alfvén speed. Stationary structures of accretion shocks with and solar metallicity. These studies begin with a rotationally supported torus of finite mass,

Bills, Private -- United States
United States. -- Congress -- Private bills
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Aquatic ecology -- Washington (State) -- Puget Sound.
Sedimentation analysis.
Stellar models.
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Shock waves.
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Cataclysmic variables. Accretion shock geometries in the magnetic variables
-
NASA contractor report -- NASA CR-186290.
NASA CR -- 186290.
Preprint series -- no. 293. Accretion shock geometries in the magnetic variables
Notes: Microfiche. [Washington, D.C. : National Aeronautics and Space Administration, 1990]. 1 microfiche.
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which then accretes as the MRI grows and saturates.

Global MHD Simulations of Accretion Disks in Cataclysmic Variables (CVs). II. The Relative Importance of MRI and Spiral Shocks

JCM was supported by a Harvard CfA Institute for Theory and Computation fellowship. Download figure: In the lower left panel of Figure , we show the time history of the mass accretion rate at the inner and outer boundaries. Alternatively, they may arise when the assumed absorption column density in fitting the X-ray data is uncertain.

Two

The scaling factor is set such that the Mach number at $R \text{ min}$ is 10 or 20 in this work. For inviscid gas, the angular momentum conservation equation in cylindrical coordinates is where is the mass accretion rate at radius R .

Equation of state in relativistic magnetohydrodynamics: variable versus constant adiabatic index

For all models, the field geometries allowed are similar to that found in. The density and temperature profiles approach the same values, with nearly the same spatial gradients, near the white-dwarf surface. The magnetic field strength is measurable, implying a lower limit on ϵ_s in each system, but unfortunately the value of ϵ_s is not a directly observable quantity.

POLAR project: Numerical modeling of the accretion column

The difference of the current model from the fiducial model is that the Reynolds stress has a peak close to the inner boundary , which is higher than the Maxwell stress. The ultimate solution to the angular momentum transport process at the boundary layer of CV disks can only be found in global MHD models with inner boundary conditions and resolution appropriate for the boundary layer region. The quotient X-ray spectra in the 0.

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