Inertial solar container disk

These are the high-latitude inertial modes, the critical-latitude inertial modes, and the equatorial Rossby modes. In the model, the high-latitude and critical-latitude modes have maximum ...

They propagate along rays that are inclined with a constant angle arcsin (~ ? / 2 ?). Such hyperbolic equations along with boundary conditions in a closed container generally yield an ill-posed problem ...

Recently discovered inertial waves, observed on the solar surface, likely extend to the deeper layers of the Sun. Utilizing helioseismic techniques, we explore these motions, allowing us to ...

The Sun"s global inertial modes are very sensitive to the solar differential rotation and to properties of the deep solar convection zone which are currently poorly constrained. These properties include the ...

We compare the theoretical results of the variance anisotropy in the inertial range with the derived observational values measured by PSP, and find that the energy density of 2D fluctuations is larger ...

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The search for the Sun"s inertial modes requires observations over many times the 27-day solar rotation period due to their low frequencies and amplitudes. Equatorial Rossby modes modified by the solar ...

To derive the ratio between the 2D and slab variances of solar wind velocity uctuations in the inertial range, we assume fl that the 2D and slab velocity uctuations exhibit a power law of k-3/2 fl in the ...

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