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RWI in disks around high spin black hole: how does it impact the observables

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The Rossby-Wave Instability (RWI) has been proposed as the origin of the fast quasi-periodic variability (HFQPOs) observed in black-hole binaries. Here we are using NOVAs, our Numerical Observatory of Violent Accreting systems, to follow the evolution of the RWI arising in the accretion disk of a black-hole for a large range of spin. The first aim is to prove the ability of the RWI to modulate the X-ray fluxes in a similar way as is observed.
But, thanks to NOVAs we can go further and explore possible imprint of the RWI in other observables.

Topic

Multi-messenger and transient astronomy

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