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The Magnetic Prandtl Number on Structure of Hot and Cold Accretion Flows

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Highlights

- Two cold and hot classes are considered for accretion flows.
- We solve the MHD equations along the theta-direction.
- The magnetic prandtl number may lead to bump formation in hot accretion flows.
- Some discontinuities in the density structure are seen at some regions.
- The results may be useful in the consideration of the Rossby wave instability.

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