

## Physical measures for certain partially hyperbolic attractors on 3-manifolds

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### **Abstract:**

In this talk, we will study ergodic properties of certain partially hyperbolic attractors whose central direction has a neutral behavior and whose main feature is a condition of transversality between unstable leaves when projected by the stable holonomy. We will see that partial hyperbolic attractors satisfying conditions of transversality between unstable leaves via the stable holonomy (related to non-integrability of  $Ess + E_{uu}$ ), neutrality in the central direction and regularity of the stable foliation admits a finite number of physical measures, coinciding with the ergodic  $u$ -Gibbs States, whose union of the basins has full Lebesgue measure. Moreover, we describe the construction of a family of robustly nonhyperbolic attractors satisfying these properties.