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The concept of temperature in driven granular suspensions MATTHIAS SCHRÖTER, SONIA MAY, Max Planck Institute Goettingen, ALEXANDER BUCK, CNLD, UT Austin, HARRY SWINNEY — Dense granular suspensions driven by a flow field are far-from equilibrium system. They exhibit some of the hallmarks of glasses like a strong increase of viscosity with density or dynamical heterogeneities. The possibility to describe such systems with a single effective temperature is still debated. Our measurements using a torsion pendulum and speckle spectroscopy test the applicability of this concept.

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