

Abstract Submitted
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Mixture of thickening and non-thickening particles.¹ YASAMAN MADRAKI, Ohio University, GUILLAUME OVARLEZ, University of Bordeaux, CNRS, SARAH HORMOZI, Ohio University — We study suspensions of non-colloidal particles (non-thickening particles) in a cornstarch solution (thickening particles in an aqueous solution). We show how polydispersity influences the shear thickening, particularly how a Continuous Shear Thickening (CST) behavior transitions to a Discontinuous Shear Thickening (DST) behavior. In addition, we present our results on the role of confinement effects on the general thickening behaviors.

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