

Abstract Submitted  
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**Drops within drops within drops** MONIKA NITSCHKE, University of New Mexico — We consider a nested set of axisymmetric viscous drops in Stokes flow. First, we derive the system of equations governing the motion of  $n$  nested drops and of the fluid between them. Then, we apply the result to compute the motion of  $n$  nested initially concentric drops in a strainfield. Here we are interested in the dependence of the strainrate in the innermost drop on the  $n$  fluid viscosities. Finally, we present the equations for a set of nested drops in a constrained geometry bounded by walls, and apply them to compute the evolution of double drops moving through a constriction.

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