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Scattering of liquid droplets from axisymmetric targets¹ JACOB HALE, JACOB BOUDREAU, DePauw University — Droplets that glide along a bath of the same fluid are seen to scatter from a cylindrical meniscus analogous to Coulomb scattering of like-charged atomic particles. We define the impact parameter, b , as the distance between the tangent line to the initial trajectory of the droplet and the parallel radial line from the center of target. The scattering angle, θ , and the distance of closest approach, r_c are measured as functions of b . The asymptotic behavior of these values presents as expected for a rapidly decaying potential between the droplet and the target.

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