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Destabilization of a cloud of particles falling in a viscous fluid BLOEN METZGER, MARIA EKIEL-JEZEWSKA, ELISABETH GUAZZELLI, GEP IUSTI MARSEILLE FRANCE TEAM, IPPT WARSAW POLAND COLLABORATION — Surprisingly, a spherical cloud of particles settling in a fluid at low Reynolds number does not remain spherical. The cloud evolves into a torus which subsequently breaks up into two or more droplets in a repeating cascade. This is investigated both experimentally and numerically.

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