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Jetting from impact of a spherical drop with a deep layer LI
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COLLABORATION — We performed an experimental study of jets during the im-
pact of a spherical drop with a deep layer of same liquid. Using high speed optical
and X-ray imaging, we observe two types of jets: the so-called ejecta sheet which
emerges almost immediately after impact and the lamella which emerges later. For
high Reynolds number the two jets are distinct, while for low Reynolds number the
two jets combine into a single continuous jet. We also measured the emergence time,
speed, and position of the ejecta sheet and found simple scaling relations for these
quantities.

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