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Drop impact of suspensions FRANCOIS BOYER, JACCO SNOEIJER, FRITS DIJKSMAN, DETLEF LOHSE, Physics of Fluids, University of Twente — Drop impact dynamics on solid surfaces is a classical subject of interfacial hydrodynamics, which occurs in many industrial and environmental situations. So far, most of the studies have concerned Newtonian fluids. Complex fluids (polymer dispersions, particle suspensions, gels, emulsions, ...) are however of considerable interest for a wide range of applications. From a fundamental point of view, how the non-Newtonian features of a complex liquid change (drastically in some cases) the drop impact dynamics is a challenging open problem. Newly observed phenomena will then be presented.

Francois Boyer
Physics of Fluids, University of Twente

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