An octahedron model for oscillating, bouncing drops FRANCOIS
BLANCHETTE, Applied Math., UC Merced — We present a model for oscillating
and bouncing liquid drops. The model uses 6 point masses distributed as the vertices
of an octahedron, connected by linear springs. We derive the physically relevant
choice of parameters and use this model to study drops bouncing on solid surfaces,
as well as drops bouncing on a nearly inviscid liquid surfaces. The surfaces may be
stationary of subject to forced oscillations.

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