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Autocatalytic plume pinch-off

[Michael C.
Rogers, Abdel
Zebib, Stephen
W. Morris](#)

*(Submitted on 2
Oct 2010 (v1), last
revised 19 Nov 2010)*

(this version, v2))

A
localized
source
of
buoyancy
flux in a
non-
reactive
fluid
medium
creates
a plume.
The flux
can be
provided
by either
heat, a
compositional
difference
between
the fluid
comprising
the
plume
and its
surroundings,