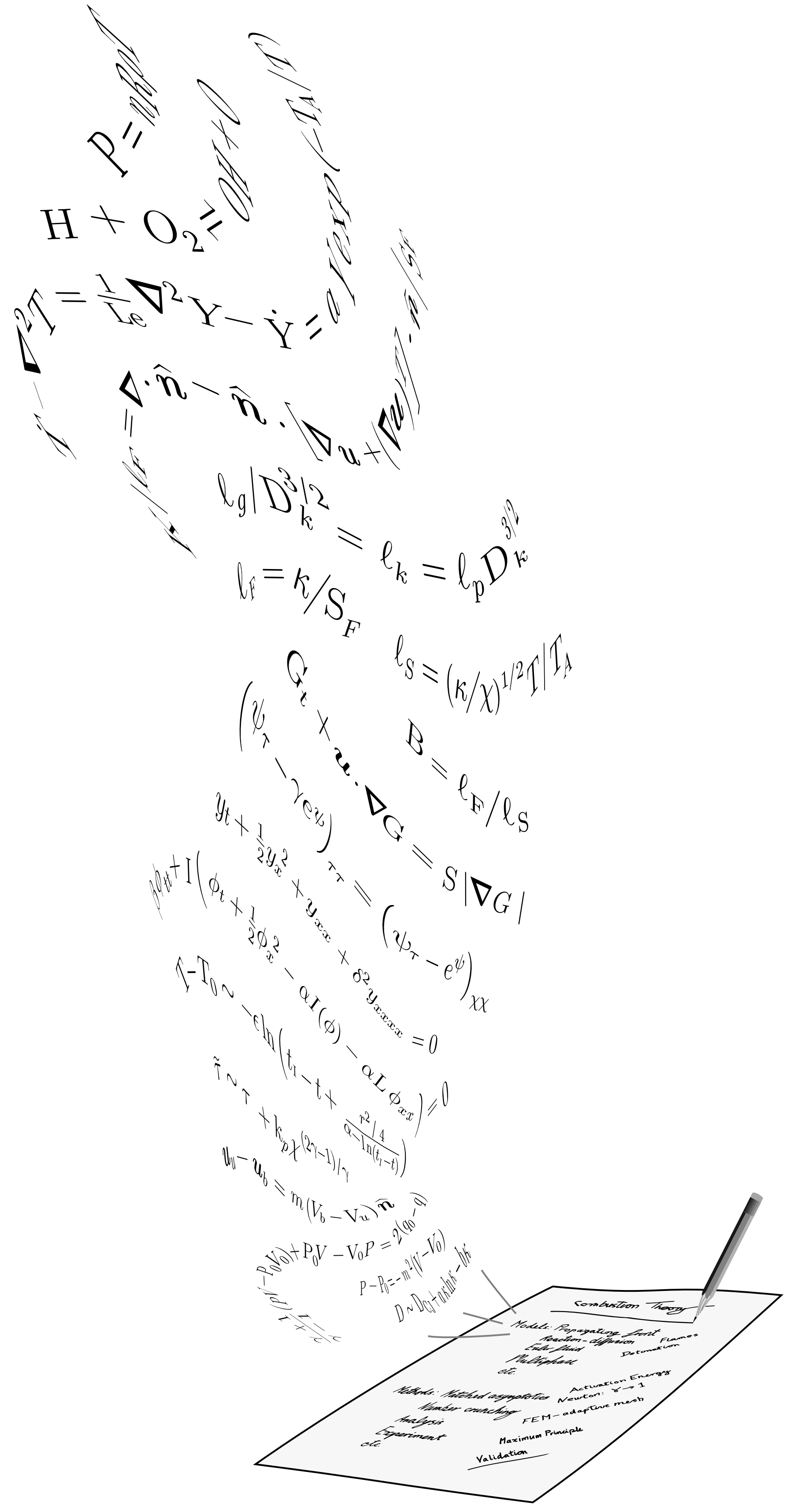

$H + O_2$
$\ell_F = \kappa / S_F$
$\ell_S = (\kappa/\chi)^{1/2} T / T_A$
$B = \ell_F / \ell_S$
$G_t + u \cdot \nabla G = S |\nabla G|$
Combustion Theory
Models: Propagating front
Reaction-diffusion
Euler-fluid
Multiphase
etc.
Flames
Detonation
Activation Energy
Methods: Matched asymptotics
Number crunching
Analysis
Experiment
etc.
FEM-adaptive mesh
Maximum Principle
Validation