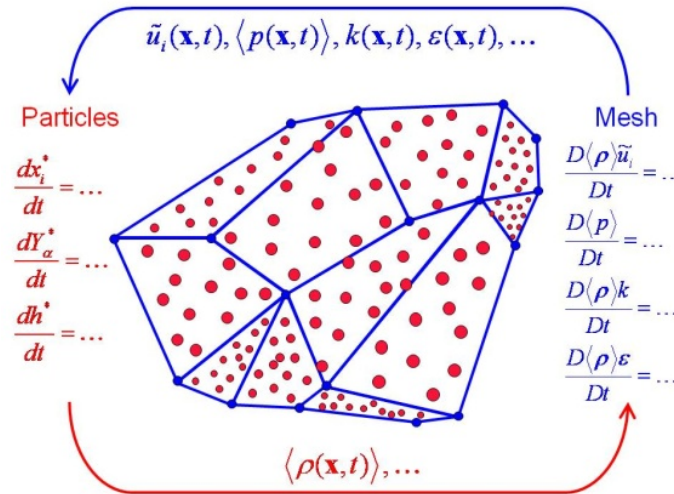
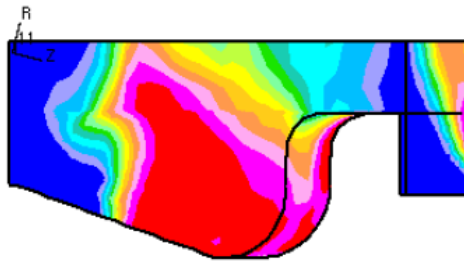
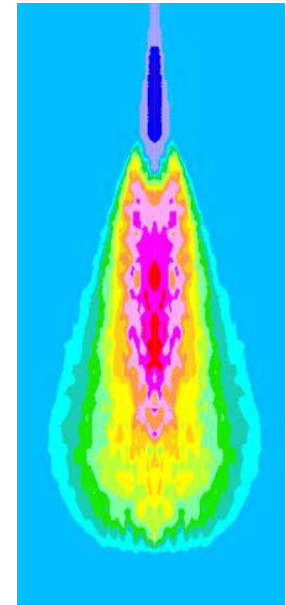
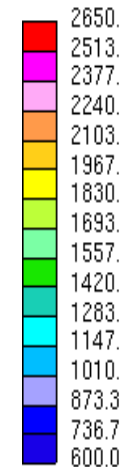


Advanced CFD Models for High Efficiency Compression-Ignition Engines

Poster Location – P19



T (K)



V. Raj Mohan, S. Bhattacharjee, D.C. Haworth
The Pennsylvania State University

A. Karlsson, J. Li
Volvo Group

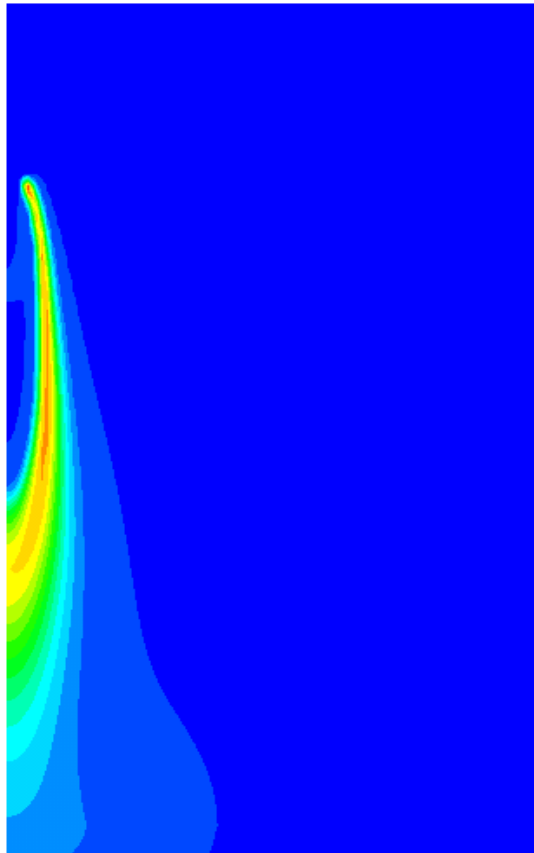


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ENERGY



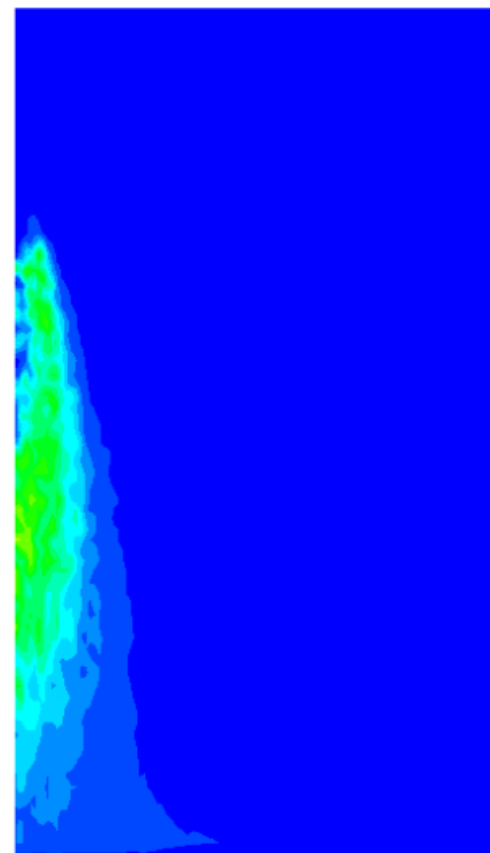
Turbulence-chemistry interactions (TCI) influence autoignition and combustion

Without PDF* (no TCI)

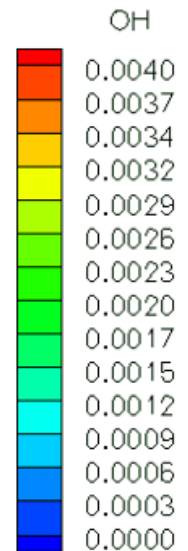
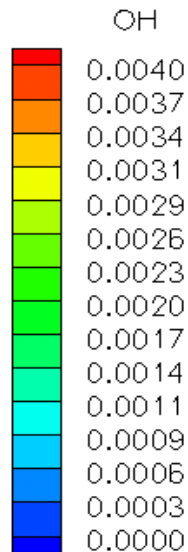


Smooth laminar-like flame structure

With PDF* (incl. TCI effects)



Turbulent brush like flame structure



Mean OH mass fractions

*Probability Density Function