

# Eulerian Monte Carlo Method for solving joint velocity-scalar PDF: numerical aspects and validation

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## Abstract

In previous works[1, 2], a Eulerian Monte Carlo (EMC) method was proposed in order to solve the joint probability density function (PDF) of turbulent reacting scalars and velocity field. The emphasis was put on the derivation of the method and on its connection with Lagrangian Monte Carlo methods (LMC). However, numerical issues were not dealt with, and no validation test was performed.

In this work, we develop a numerical scheme for solving the stochastic partial differential equations (SPDE) on which the EMC method is based. This numerical scheme is monotone and second order in space. Time discretization is performed with a new weak second order Runge-Kutta scheme, in which source terms are treated implicitly, and convection is treated explicitly.

As a validation benchmark, we consider a 1D turbulent reactive flow, where pressure and molecular effects are modelled with the simplified Langevin (SLM) and the interaction by exchange with the mean (IEM) models. For validation purposes, several simplifications are further brought to this model. In particular, rapid distortion redistribution is neglected and turbulent frequency is assumed to be constant. We check the convergence properties of the numerical schemes.

## 1 INTRODUCTION

In the field of turbulent combustion, Lagrangian Monte Carlo (LMC) methods [3] have become an essential component of the probability density function (PDF) approach. LMC methods are based on stochastic particles, which evolve from prescribed stochastic ordinary differential equations (SODEs). They are used to compute the one-point statistics of the quantities describing the state of a turbulent reactive flow: namely, the velocity field and the reactive scalars (species mass fractions and temperature).

Numerous publications document the convergence and accuracy of LMC methods [4]. They have been used in many complex calculations (including LES), and for several years now, they have been implemented in commercial CFD codes. Nonetheless, the development of a new Eulerian Monte Carlo (EMC) method is useful and stimulating, since the competition between LMC and EMC methods could push both approaches forward.

EMC methods are based on stochastic Eulerian fields, which evolve from prescribed stochastic partial differential equations (SPDE) statistically equivalent to the PDF equation. EMC methods have already been proposed in [1] and in [5], in order to compute the one-point PDF of turbulent reactive scalars. We refer to these methods as scalar EMC methods. In that case, the corresponding SPDEs are hyperbolic advection-reaction equations with a Brownian advection velocity. Numerical issues for solving these SPDEs are discussed in [6].

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