

## CURRICULUM VITÆ

**Surname:** Salvarani      **First name:** Francesco  
**Position:** Associate Professor, University of Pavia (Italy)  
**Department:** Mathematics  
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### FORMATION

- **2001:** PhD in Mathematics, École Normale Supérieure de Cachan (France)
- **2001:** PhD in Mathematics, University of Genoa (Italy)
- **1997:** *Laurea* (Master degree) in Physics, University of Pavia (Italy)

### RESEARCH INTERESTS

- Kinetic theory for gases and plasmas
- Mathematical modelling of collective phenomena

### FIVE SELECTED PUBLICATIONS

- 1 Benjamin Anwasia, Marzia Bisi, Francesco Salvarani, Ana Jacinta Soares. On the Maxwell-Stefan diffusion limit for a reactive mixture of polyatomic gases in non- isothermal setting. *Kinet. Relat. Models*, **13**, (2020) 63–95
- 2 Étienne Bernard, Francesco Salvarani. On the exponential decay to equilibrium of the degenerate linear Boltzmann equation. *J. Funct. Anal.* **265**, 9 (2013) 1934–1954
- 3 Emmanuel Frénod, Francesco Salvarani, Eric Sonnendrücker. Long time simulation of a beam in a periodic focusing channel via a two-scale PIC-method. *Math. Models Methods Appl. Sci.* **19**, 2 (2009) 175–197
- 4 Laurent Desvillettes, Roberto Monaco, Francesco Salvarani. A kinetic model allowing to obtain the energy law of polytropic gases in the presence of chemical reactions. *Eur. J. Mech. B/Fluids* **24**, 2 (2005) 219–236
- 5 Laurent Desvillettes, Francesco Salvarani. Characterization of collision kernels. *M2AN Math. Model. Numer. Anal.* **37**, 2 (2003) 345–355

### EDITORIAL ACTIVITY

- Guest Editor of the special issue of *La Matematica* entitled “Partial Differential Equations in Phase Space”, Springer Nature. ISSN: 2730-9657
- Recent advances in kinetic equations and applications. Springer INdAM series 48, Francesco Salvarani editor, Springer International Publishing (2021) ISBN: 978-3-030-82945-2
- PDE models for multi-agent phenomena. Springer INdAM series 28, Pierre Cardaliaguet, Alessio Porretta & Francesco Salvarani editors, Springer International Publishing (2018) ISBN: 978-3-030-01946-4

### SPOKEN LANGUAGES

- Italian, English, French, Spanish