

Laboratory of Mathematics and its Applications of PAU - UMR CNRS 5142

Welcome



The Laboratory of Mathematics and its Applications of Pau is part of the [CNRS](#) and of the University of Pau and Adour Region. It is a member of the [IPRA Federation](#) FR 2952 and of the [Institute Carnot-isifor](#). | 🇫🇷

Furthermore, the LMAP is associated with INRIA via 2 common teams, namely «Makutu» and «Cagire».

Main research areas

- * **Probability and Statistics**
 - * Stochastic modeling, probability,
 - * Data analysis, statistical inference.

- * **Algebra and Geometry**
 - * Algebraic geometry of projective space and low dimensional topology.

- * **Partial differential equations analysis**
 - * Non linear partial differential equations and optimization.

- * **Analysis and Numerical Simulation**
 - * Fluid mechanics, porous media, waves and turbulence,
 - * Discretization methods for partial differential equations,
 - * Approximation, moving mesh, High Performance

Areas of Expertise

- * Petroleum engineering and reservoir simulation
- * Aerothermodynamics (combustion and cooling)
- * Hydrodynamics and pollutant transportation
- * Reliability and safety in industry
- * Sampling design and quality control

- * Data analysis and statistical methods for decision making
- * Environment and biology

Brochure of the LMAP

📄 [Research](#) (pdf - 5,42 Mo)

