


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)



Inria