

STAFF

105 members, including

- ► 60 researchers (20 UBS)
- ▶ 25 doctoral students (13 UBS)

CONTACT UBS

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PARTNERS







UMR 6205 BRETAGNE ATLANTIQUE MATHEMATICS LABORATORY LMBA

LMBA brings together the majority of mathematicians in West Brittany. The research areas cover a large part of mathematical domains, from theoretical aspects to the more applied ones, such as algebraic and differential geometry, mathematics physics, topology and groups; dynamic systems, probability and statistics; control, differential games, digital analysis, and image processing.

Three main topic areas are structured around teams and seminars:

- ▶ Geometry and topology;
- ▶ Dynamic systems, probability and statistics;
- ► Analysis, stochastic phenomena, and applications.

SCIENTIFIC DOMAIN

Mathematics and their interactions.

APPLICATION SECTORS

Banking / Insurance / Energy /
Environment / Eco-activities / Industries /
Information technology & software / Logistics /
Transport / Healthcare / Telecommunications.

EXPERTISE

Quantum invariants / Foliation /
Probability / Random walk / Random media /
Statistics / Statistical analysis /
Statistical training / Image
Processing / Mathematical modeling /
Numerical analysis / Deterministic and
stochastic control / MegaWave2 software/
Data Science.

SPECIFIC EQUIPMENT

Unit library, member of RNBM (National network of mathematics libraries GDS2755 of the CNRS): 10,000 books, 50-odd periodicals.

SCIENTIFIC COLLABORATION

International: Numerous research teams (Germany, Canada, UK, United States, China, Columbia, Peru, Brazil, Algeria, Vietnam, Japan, Russia, Spain, Norway).

European projects: Breuds (exchanges

between Europe and Brazil) and Portonovo.

PLATEFORM

The Cyber Security Center uses the multidisciplinary expertise of research laboratories, including the LMBA. The mathematics part of research involves mathematics and statistics.

KEYWORDS

Algebraic and differential geometry / Ergodic Theory / Probability/ Statistics/ Applied Analysis / Image / Asymptotic analysis.

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