School of Mathematics - JAE 2017

Enlargement of filtration and predictable representation property: application to Financial Mathematics

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Course Programme

- Predictable Representation Property and Girsanov's Theorem
- Basic Concepts and Examples in Finance
- Enlargement of Filtrations - Initial Enlargement
- - Progressive Enlargement
- Optimal portfolio with insider information

Main References

- M. Jeanblanc, M. Yor and M. Chesney (2009). *Mathematical methods for financial markets*. Springer, London.
- D. Revuz and M. Yor (1999). *Continuous Martingales and Brownian Motion.* Springer Verlag, Berlin. 3rd ed.