Discussion on Matteo Casserini's talk

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New advances in Backward SDEs for financial engineering applications
Tamerza Palace, Tunisia, October 25-28, 2010

An extended framework of coupled FBSDEs

- The theory of FBSDEs is still far from complete

- This work extends the classical approach on Brownian filtration to more general cases, by

  replacing Z with an exogenously given operator L

- Questions :
  - ◇ Motivation/application ?
  - ◇ Comparison with Samuel Cohen's work ?
  - ◇ Example of L which is not derived from quadratic covariation ?
  - ◇ Any new insights on the classical setting ?
  - ◇ What's next ?

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Numerical methods for FBSDEs

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• But, mainly on decoupled Markovian FBSDEs. Very few works on coupled FBSDEs.

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◇ When reduced to the classical case, does this approach have any advantage ?

◇ Does the algorithm works for non-classical cases ?

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