Mathematical Finance

Winter term 2023/2024

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Sheet MF09

Mathematical Finance: MF Exercises (for discussion on Monday, 15.01.2023)

Exercise 1. (4 bonus points)

Is there a filtration $(\mathcal{F}_n)_{n\in\mathbb{N}}$ with $\mathcal{F}_n\subsetneq\mathcal{F}_{n+1}$ for all $n\in\mathbb{N}$ such that $\bigcup_{n\in\mathbb{N}}\mathcal{F}_n$ is a σ -algebra?