GEORGE STOICA, University of New Brunswick, Saint John, New Brunswick $Market\ completeness:\ a\ return\ to\ order$

We define a trading strategy operator in a two-times stochastic economy and investigate market completeness with respect to the order relation on a linear lattice of functions describing, in a two-times economy, the associated cash flow space. The study is leading us towards alternative definitions for market completeness, in terms of trading strategy operators and approximate uniformly integrable martingales spanning on such linear lattices. In particular, we study the almost everywhere convergence situation on the space of cash flows given by the space of all equivalence classes of real valued random variables.