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Tolulope Rhoda Fadina* (tfadina@math.uni-bielefeld.de), International Graduate College, Stochastics, and Real World Models, Bielefeld University, Universitaetstr 25, 33615 Bielefeld, NRW, Germany. *Hyperfinite Construction of G -expectation*.

We refine the discretization of G -expectation by Y. Dolinsky, M. Nutz, and M. Soner (*Stochastic Processes and their Applications*, 122 (2012), 664–675), in order to obtain a discretization of sublinear expectation where the martingale laws are defined on a finite lattice rather than the whole set of reals. We then use this result to devise an alternative construction of G -expectation in the framework of Robinsonian nonstandard analysis. (Received September 12, 2014)