962-46-1343 **Masatoshi Fukushima** and **Masanori Hino*** (hino@math.cornell.edu), Masanori Hino, Dept. of Mathematics, Cornell Univ., Ithaca, NY 14853. *On a space of BV functions on an abstract Wiener space.*

Functions of bounded variation (BV functions) are defined on an abstract Wiener space (E, H, μ) in a way similar to that in finite dimensions. Some characterizations are given, which justify describing a BV function as a function in $L(\log L)^{1/2}$ with an H-valued measure as the first order derivative. It is also shown that the space of BV functions is obtained by a natural extension of the Sobolev space $D^{1,1}$. If the indicator function of a subset A of E is of bounded variation, the (modified) distorted Ornstein-Uhlenbeck process on A is proved to have a Skorokhod representation. (Received October 03, 2000)