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**Title:** Neutral stochastic differential equations driven by Brownian motion and fractional Brownian motion in a Hilbert space

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A class of mixed neutral stochastic differential equations involving Brownian motion and fractional Brownian motion is considered. The existence, uniqueness and exponential stability for the solutions of these equations are discussed by means of semigroup of operator and the fixed point principle under some suitable assumptions. Our results extend and improve those of [2] and [11].

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