EXISTENCE AND UNIQUENESS OF MILD SOLUTIONS TO NEUTRAL IMPULSIVE FRACTIONAL STOCHASTIC DELAY DIFFERENTIAL EQUATIONS DRIVEN BY BOTH BROWNIAN MOTION AND FRACTIONAL BROWNIAN MOTION

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Abstract. In this paper, we discuss the existence and uniqueness of a mild solution for neutral impulsive fractional stochastic delay differential equations driven by Brownian motion, and fractional Brownian motion with the Hurst parameter \( H \in (1/2, 1) \), by using Banach fixed point theorem in a Hilbert space.

Mathematics subject classification (2020): 60G22, 45N05, 34G20, 60H15, 60G15, 35R12.

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