

In this thesis, we study the $1/H$ -variations of stochastic integrals, where the integrators are the fractional Brownian motion and Rosenblatt process (with the Hurst parameter $H > 1/2$). The considered stochastic integrals are defined as the Skorokhod integrals within the framework of Malliavin calculus. We summarize the already established results about the $1/H$ -variation of the integral with respect to the fractional Brownian motion and then apply the techniques used therein to obtain the form of the $1/H$ -variation of the integral with respect to the Rosenblatt process.