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Tsukasa Iwabuchi* (t-iwabuchi@m.tohoku.ac.jp), 6-3, Aza Aoba, Aramaki, Aoba ku, Sendai city, 9808578, Japan. *The semigroup generated by the Dirichlet Laplacian of fractional order.*

In this talk we consider the linear estimates of the semigroup generated by the Dirichlet Laplacian. In the whole space \mathbb{R}^d , such estimates for heat semi-group are well established, which are estimates of L^p - L^q type, maximal regularity, e.t.c. We will study the estimates for semi-group generated by the Dirichlet Laplacian of fractional order in terms of the Besov spaces on an arbitrary open set of \mathbb{R}^d . (Received January 11, 2019)