

Decomposition of function space on non-rectifiable curve

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After comparing with each other between Kats and Stiljies integrals we define the integrable function spaces on the curve. We discuss the singular integral operator and the decomposition of function space on the snowflake curve. As the role of $ax+b$ group in the singular integral theory of one real variable, it is studied for the representation of symetry group of snowflake. Then we get the decomposition of the square integrable functions, from which the suitable definition of singular integral operator appears.