On dyadic nonlocal Schrödinger equations with Besov initial data

Hugo Aimar, Bruno Bongioanni, Ivana Gómez

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In this paper we characterize a dyadic type Besov space as an adequate setting to solve the Schr\"{o}dinger-Dirac type equation $i\tfrac{\partial u}{\partial t}=D^{\beta}u$ with $u(x,0)=u^0$ pointwise. Here D^{β} is the fractional derivative of order β associated to the dyadic distance δ on $(0,1)$.

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