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Dashan Fan and **Jingchun Chen*** (jingchun@uwm.edu). *Long time decay estimates in Triebel-Lizorkin spaces for evolution equations with structural dissipation.* Preliminary report.

In this paper, we employ the generalized multiplier theorem and duality theorem to derive the estimates in Triebel-Lizorkin spaces for the Cauchy problem for evolution operators with structural dissipation. The obtained estimates are a natural extension of the known results in real Hardy spaces for these models. (Received September 12, 2017)