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**Francesco Di Plinio** and **Yumeng Ou\*** (yumeng\_ou@brown.edu). *Banach-valued  $T(1)$  theorems.*

We prove several Banach-valued  $T(1)$ -type theorems both in one parameter, and of multi-parameter, mixed-norm type. A distinguishing feature of our  $T(1)$  theorems is that the usual explicit assumptions on the distributional kernel of  $T$  are replaced with testing-type conditions. Our proofs rely on a newly developed Banach-valued version of the outer  $L^p$  space theory of Do and Thiele. (Received January 15, 2016)