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Lutz W Weis* (Lutz.Weis@math.uni-karlsruhe.de), Fakultät fuer Mathematik, Universität Karlsruhe, 76128 Karlsruhe, Germany. *Harmonic Analysis of Banach space-valued functions and operator theory.*

In recent years, Fourier multiplier theorems with operator-valued multiplier functions have found interesting applications in the theory of sectorial operators. Motivated by these results we present some recent extensions of the T1-theorem, again for operator-valued kernels, and applications to singular integrals and wavelet-decompositions for functions with values in a UMD space. (Received February 08, 2006)