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Schur multipliers of Calderón-Zygmund type.

Given a discrete group G with left regular representation λ , we explore the trace preserving isomorphism $\mathcal{B}(\ell_2(G)) \simeq \ell_\infty(G) \rtimes_\lambda G$ to identify Schur multipliers in $\mathcal{B}(\ell_2(G))$ with certain noncommutative Calderón-Zygmund operators. Applying recent results, we may provide sufficient conditions on the Schur multiplier to be an $S_\infty(\ell_2(G)) \rightarrow \text{BMO}$ bounded map for some natural matrix BMO space. Examples will be provided. Joint work with M. Junge and T. Mei. (Received September 07, 2010)