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NCG, Schur and Hadamard products

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Commutators in NCG like $[D, a]$ take the form of a Schur multiplication $\big((\lambda_i - \lambda_j)a_{ij}\big)$. Schur multiplication of matrices is also named Hadamard multiplication. It is shown that inside many C*-algebras, which have the form of a crossed product of a C*-algebra by a discrete group, the obvious Hadamard product, given as $\left(\sum_g U_g a_g\right) \star_H \left(\sum_g U_g b_g\right) := \sum_g U_g a_g b_g$, has many nice properties such as having a Stinespring representation, and the Schur product is a special case of this.

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