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Inequalities for the spectral radius of Hadamard and Krivine products of positive operators.

Recently K.M.R. Audenaert, and Roger A. Horn and Fuzhen Zhang proved inequalities between the spectral radius of Hadamard products of finite nonnegative matrices and the the spectral radius of their ordinary matrix product. We will prove these inequalities in such a way that they extend to infinite nonnegative matrices A and B that define bounded operators on sequence spaces. One of the inequalities extends to an inequality of the spectral radius of the Krivine product $A^{\frac{1}{2}} \cdot B^{\frac{1}{2}}$ of arbitrary positive operators A and B on Banach lattices.