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**Elliott H Lieb\*** ([lieb@princeton.edu](mailto:lieb@princeton.edu)). *Strichartz Inequality for Orthonormal Functions.*

We prove a Strichartz inequality for a system of orthonormal functions, with an optimal behavior of the constant in the limit of a large number of functions. The estimate generalizes the usual Strichartz inequality, in the same fashion as the Lieb-Thirring inequality generalizes the Sobolev inequality. As an application, we consider the Schrödinger equation in a time-dependent potential and we show the existence of the wave operator in the strong sense of a finite Schatten space norm. (joint work with R. Frank, M. Lewin and R. Seiringer) (Received August 30, 2013)