Titel: The L^p-Boundedness of Wave Operators for Three Dimensional Schrödinger Operators with Point Interactions

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Abstract:
Wave operators for three dimensional Schroedinger operators with point interactions are bounded in L^p for 1<p<3 but not for p=1 nor for p>=3 regardless of the location of points and the strengths of interactions. This finding implies L^p-L^q estimates for the propagator for 3/2<q<=2<=p<3, 1/p+1/q corresponding Strichartz estimates.