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Schrödinger operators with a singular potential. (English) Zbl 0997.35010
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Summary: This note is devoted to the study of some Schrödinger operators with a singular real potential Q . The potential Q is chosen so that the algebraic sum $L = -\Delta + Q$ is not defined. Next, we define the sum form operator which will be well defined and we show that this operator verifies the well-known Kato's square root problem.

MSC:

- 35J05 Laplace operator, Helmholtz equation (reduced wave equation), Poisson equation Cited in 1 Document
- 47B44 Linear accretive operators, dissipative operators, etc.
- 47B25 Linear symmetric and selfadjoint operators (unbounded)

Keywords:

[Kato's square root problem](#)

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