Commun. math. Phys. 55, 316 (1977)

Communications in
Mathematical
Physics

Addendum

Herbst, I.W.: Spectral Theory of the Operator $(p^2+m^2)^{1/2}-Ze^2/r$.
Commun. math. Phys. **53**, 285—294 (1977)

The author was unaware of the Paper [1] where it is proved that $H^{-1}-H_0^{-1}$ is compact for $Ze^2<2/\pi$ ($H=H_0-Ze^2/|\boldsymbol{x}|$, $H_0=(\boldsymbol{p}^2+m^2)^{1/2}$). From the above result and the dilation analytic methods used by Weder in [2], it follows that $\sigma_{\text{ess.}}(H)=\sigma_{\text{a.c.}}(H)=[m, \infty)$ and $\sigma_{\text{s.c.}}(H)=\emptyset$.

The author thanks Professor Weder for informing him of [1].

References

1. Weder, R.: J. Funct. Anal. **20**, 319—337 (1975)
2. Weder, R.: Ann. Inst. H. Poincaré **20**, 211—220 (1974)