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[10pts] The trace of an operator is
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quantum mechanics frequently
experience difficulties separating

essential underlying principles from the
specific examples to which these
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... Claude Cohen-Tannoudji is a
researcher at the Kastler-Brossel
laboratory of the Ecole Normale
Supérieure in Paris where he also
studied and received his PhD in 1962. In
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molecular physics at the Collège des
France. His main research interests were

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Problems 1 Problem 1 A particle in free space in one dimension is initially in a wave packet described by $\psi(x) = \frac{1}{\sqrt{2}} e^{-x^2/2}$ a) What is the probability that its momentum is in the range $(p; p+ dp)$? (Hint: remember the Fourier transform relation between position and momentum ...

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Claude Cohen-Tannoudji is a researcher at the Kastler-Brossel laboratory of the Ecole Normale Supérieure in Paris where he also studied and received his PhD in 1962. In 1973 he became Professor of atomic and molecular physics at the Collège des France. His main research interests were optical pumping, quantum optics and atom-photon interactions.

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