Observable Characteristics of Pure Quantum States

John Bohn

After publication of this Letter, I was made aware of a number of earlier articles [1–5] addressing closely related issues. In particular, Biedenharn’s Eq. (20) anticipated my own Eq. (11). I apologize for this, and possibly other, oversights. Biedenharn has presented a recursive procedure for parametrizing the measurable multipoles of a pure state. My own goal was to establish relations among the multipoles, which are separately measurable, yet not independent, in a pure state.

I am indebted to J. T. Donohue for bringing this oversight to my attention.


New Search for the Spontaneous Conversion of Muonium to Antimuonium


The following paragraph was omitted from our paper.

A new experiment [21] is underway at the Paul-Scherrer-Institut (PSI) that will also exploit the coincidence signature for detecting $\bar{M}$. The acceptance for observing the energetic $e^-$ will be greatly increased by using the refurbished SINDRUM I detector and the detection of the atomic $e^+$ is refined to include the observation of its annihilation quanta. Together with the high-intensity continuous-wave beam at PSI, these improvements are expected to increase substantially the sensitivity to the $M \rightarrow \bar{M}$ conversion.


A reference was omitted from Ref. [13] in the original article. The complete Ref. [13] should read as follows.