

**Brau, F.**

**Comment on 'Quantum mechanics of smeared particles'.** (English) [Zbl 1066.81553](#)  
*J. Phys. A, Math. Gen.* 36, No. 5, 1523-1524 (2003).

Summary: *R. R. Sastry* [ibid. 33, No. 46, 8305–8318 (2000; [Zbl 1065.81506](#))] has proposed a quantum mechanics of smeared particles. We show that the effects induced by the modification of the Heisenberg algebra, proposed to take into account the delocalization of a particle defined via its Compton wavelength, are important enough to be excluded experimentally.

**MSC:**

[81Q99](#) General mathematical topics and methods in quantum theory

[81P05](#) General and philosophical questions in quantum theory

**Full Text:** [DOI](#) [arXiv](#) [Link](#)