

# Does an elementary particle have a unique intrinsic state?

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## Abstract

J.M.G. Fell and other authors have asserted that an elementary particle has only one `intrinsic' state. I will argue that this claim is not consistent with the mathematical structures and objects used to represent an elementary particle in relativistic quantum theory.

**Keywords:** elementary particle symmetry intrinsic perdurantism endurantism

[Specific Sciences: Mathematics](#)

[Specific Sciences: Physics: Relativity Theory](#)

**Subjects:**

[Specific Sciences: Physics: Fields and Particles](#)

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