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Can Schrödinger equation describe quantization of celestial systems? FLORENTIN SMARANDACHE, University of New Mexico, VICTOR CHRISTIANTO, Malang Institute of Agriculture — One can expect to use Schrödinger equation to describe quantization of celestial systems. While this notion of macroquantization is not widely accepted yet, the logarithmic nature of Schrödinger equation could be viewed as a support of its applicability to larger systems. As an alternative, one may discuss an outline for how to derive Schrödinger equation from simplification of Ginzburg-Landau equation. It is known that Ginzburg-Landau equation exhibits fractal character, which implies that quantization could happen at any scale. Therefore, it seems that it should not impose too much baggage to accept the use of Schrödinger equation to describe also classical systems, including celestial quantization. After all, the use of Schrödinger equation has proved itself to help in finding new objects known as extrasolar planets.

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