

1162-51-123

Jerzy Kocik* (jkocik@siu.edu), Department of Mathematics, Carbondale, IL 62901. *Pauli spinors, Apollonian depth function, and fractals*. Preliminary report.

A surprising applications of Pauli spinors allows one to visualize the space of tricycles (triples of disks in contact) as a complex plane. The fractal of the Apollonian depth function assumes a particularly elegant form, with a symmetry group that extends the standard modular group. (Received August 28, 2020)