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Jerzy Kocik* (jkocik@siu.edu), Jerzy Kocik, Department of Mathematics, Southern Illinois University, Carbondale, IL 62901. *The spinor structure of the Apollonian disk packing.*

In the Apollonian disk packings, algebra, geometry, topology and number theory interact in a surprisingly rich way, encompassing Clifford algebras, split quaternions, recurrence sequences, Pythagorean triples, the theory of relativity, etc. We shall present some aspects of the associated spinor structure. (Received August 30, 2011)