

Long, Shude

Counting rooted nonseparable unicursal planar maps. (English) [Zbl 1424.05153](#)
Ars Comb. 131, 169-181 (2017).

Summary: A map is unicursal if all its vertices are even-valent except two odd-valent vertices. This paper investigates the enumeration of rooted nonseparable unicursal planar maps and provides two functional equations satisfied by its generating functions with the number of nonrooted vertices, the number of inner faces (or the number of edges) and the valencies of the two odd vertices of maps as parameters.

Reviewer: [Reviewer \(Berlin\)](#)

MSC:

- [05C30](#) Enumeration in graph theory
- [05C45](#) Eulerian and Hamiltonian graphs
- [05C10](#) Planar graphs; geometric and topological aspects of graph theory

Keywords:

[nonseparable unicursal map](#); [enumerating function](#); [functional equation](#)