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## **Enumeration of genus-four maps by number of edges**

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### **Abstract**

An explicit form of the ordinary generating function for the number of rooted maps on a closed orientable surface of genus four with a given number of edges is given. An analytical formula for the number of unrooted maps of genus four with a given number of edges is obtained through the number of rooted ones. Both results are new.

Math Sci Net: [05C30 \(05C10\)](#)

# Štetje zemljevidov rodu 4 pri danem številu povezav

## Povzetek

V članku podamo v eksplicitni obliki navadno rodovno funkcijo števila zemljevidov s korenem na zaprti orientabilni ploskvi rodu štiri z danim številom povezav. Iz nje izpeljemo tudi analogno analitično formulo za število zemljevidov brez izbranega korena. Oba rezultata sta nova.