

# Families of plaited polyhedra as knots and links

Ljiljana Radović

*University of Niš, Faculty of Mechanical Engineering, Niš, SERBIA*  
[ljradovic@gmail.com]

We analyzed some families of plaited polyhedra from the knot-theory point of view. These families of plaited polyhedra, discovered by P. Gerdes, occurring as African dance rattle capsules. Every plaited polyhedron can be derived from a shadow of some knot and link, by using dual of the shadow. We introduced different construction methods based on families of knots and links or their corresponding braid families, resulting in families of plaited polyhedra.

---