

ON VASSILIEV INVARIANTS OF BRAID GROUPS OF THE SPHERE

VLADIMIR VERSHININ

We construct a universal Vassiliev invariant for braid groups of the sphere and the mapping class groups of the sphere with n punctures. The case of a sphere is different from the classical braid groups or braids of oriented surfaces of genus strictly greater than zero, since Vassiliev invariants in a group without 2-torsion do not distinguish elements of braid group of a sphere.

This is a joint work with Nizar Kaabi [1].

REFERENCES

- [1] N. Kaabi, V. V. Vershinin, “On Vassiliev Invariants of Braid Groups of the Sphere. ”, *Atti Semin. Mat. Fis. Univ. Modena Reggio Emilia*, 58 , 213-232 (2011).

SOBOLEV INSTITUTE OF MATHEMATICS, NOVOSIBIRSK, 630090, RUSSIA

E-mail address: `versh@math.nsc.ru`