PSEUDO-ANOSOV BRAIDS ON THE 2-SPHERE

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(Joint work with K. Ichihara and K. Motegi.)

We consider homeomorphisms of 2-d disk or 2-d sphere. Periodic orbits for such maps give geometric braids on the disk/sphere, and these braids are classified into three types; periodic, reducible, pseudo-Anosov type. (These are called Nielsen-Thurston types.) Geometric braids on the disk naturally induce those on the sphere. We will discuss the Nielsen-Thurston types of braids on the sphere induced from braids of pseudo-Anosov type on the disk. This is joint work with K. Ichihara and K. Motegi.

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