早大理工トポロジーセミナーのお知らせ

Braids that are trivial over the sphere

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Abstract

Artin's braid groups have been known and studied extensively since the first half of the XX century. A usual Artin braid, or a braid over the disk can be thought of as a subset of the cylinder sandwiched between two disks. A braid over the sphere is then sandwiched between two concentric spheres. The group of braids over the sphere is known to be the quotient-group of the braid group over the disk and thus there is the kernel of the quotient-map -- the group of braids that become trivial when considered as braids over the sphere. We are going to give a presentation of this group and explain how it is related to things like solutions of the word problem of the braid group over the sphere and homotopy groups of spheres.

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