Gregory R. CONNER

Fundamental groups of solenoid complements

Abstract: We shall present joint research with Meilstrup, Purcell and Repovš, on fundamental groups of solenoid complements in the 3-sphere. Such complements are open 3-manifolds with one end. We shall discuss the fundamental groups of such manifolds, and show that the complements of different solenoids have different fundamental groups. We shall also prove that embeddings of the same solenoid can give different groups. The nicest embeddings are unknotted at each level, and they have abelian fundamental group, while other embeddings have nonabelian groups.