

Research Activity Program (Akio Kawauchi)

This year's research activities include the following plans.

- (0) Publication program of the papers of the items 138-142 in the paper list.
- (1) Relationship between the crossing number of a link and the ribbon number of a spun torus-link.
- (2) A study of ribbonness of a surface-link with free fundamental group.
- (3) A study of complexities of a graph knitting pattern.
- (4) A study of linking probability of a spatial arc system.
- (5) A study of an orthogonal 2-sphere basis in stable 4-sphere.
- (6) A study of a diffeomorphism of the 4-sphere.
- (7) A new development on topological imitations of (3,1)-manifold pairs.
- (8) A study on a Seifert hypersurface for a surface-knot.
- (9) A study of unimodular Hermitian form over integral Laurent polynomial ring via smooth manifold.