

**An invariant of fibered knots from the third Johnson-Morita
homomorphism of mapping class group**

Ryosuke Yamamoto

Osaka City University, OCAMI

Abstract. We introduce a new calculation of Alexander-Conway polynomial of fibered knots in a closed orientable 3-manifold, and we will discuss to build an invariant of fibered knots by using this calculation with the third Johnson-Morita homomorphism of mapping class group.