1078-16-174   **Izuru Mori*** (`simouri@ipc.shizuoka.ac.jp`). *McKay Type correspondence for AS-regular algebras.*

One of the formulation of the classical McKay correspondence claims that the minimal resolution of the affine scheme associated to the fixed subalgebra of the polynomial algebra in two variables by a finite subgroup of the special linear group of degree 2 is derived equivalent to the preprojective algebra of the McKay quiver of that group. In this talk, we will see that there is a similar correspondence in the case that a finite cyclic subgroup of the general linear group of degree n acts on an AS-regular algebra in n variables. Since AS-regular algebras are noncommutative analogues of the polynomial algebra, this can be thought of as a McKay type correspondence in noncommutative algebraic geometry. (Received December 05, 2011)