HOKUTO UEHARA, Tokyo Metropolitan University, Tokyo 192-0397, Japan *Fourier–Mukai numbers of minimal elliptic rational surfaces*

For a given smooth projective variety X, the cardinality of the set of isomorphism classes of smooth projective varieties which are derived equivalent to X is called Fourier–Mukai number of X.

I find a formula of Fourier-Mukai numbers of minimal elliptic rational surfaces.

As its application, I give an example of a pair of minimal model 3-folds with Kodaira dimensions 1, $h^1(\mathcal{O}) = h^2(\mathcal{O}) = 0$ such that they are mutually derived equivalent, deformation equivalent, but not birationally equivalent. It also supplies a counterexample of the birational Torelli problem.