

1139-32-69

Takuro Abe* (abe@imi.kyushu-u.ac.jp), Motooka 744, Nishi-Ku, Fukuoka, Fukuoka 8190395, Japan. *Generators of logarithmic derivation modules of hyperplane arrangements.*

Logarithmic derivation modules are one of the most important objects to study in of hyperplane arrangements and hypersurfaces. In particular, the freeness of them have been intensively studied. But in general they are not free. By Dimca and Sticlaru, the near freeness of plane curves and cubic surfaces are introduced, which is close to the freeness from the viewpoint of the number of generators. We study several properties of free and nearly free curves from algebro-geometric points of view, and consider the higher dimensional version of them. This talk contains a joint work with Alex Dimca. (Received January 27, 2018)