

Séminaire de géométrie algébrique de Rennes¹

Exposé du jeudi 9 octobre 2014

**ON LOG CARTIER TRANSFORM OF HIGHER LEVEL IN
POSITIVE CHARACTERISTIC**

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Résumé : In this talk, we explain the Azumaya algebra structure of the sheaf of log differential operators of higher level in prime characteristic. We also discuss about a splitting module of it under a certain liftability assumption modulo p^2 . Our result can be regarded as a generalization of the result of Ogus-Vologodsky and Gros-Le Stum-Quiros to the case of log schemes and that of Schepler to the case of higher level.

1. Les jeudis matin, de 10 h 30 à 11 h 30, salle 004, IRMAR (bâtiment 22), Université de Rennes 1, Campus de Beaulieu