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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.