

Berthelot, Pierre; Messing, William

Théorie de Dieudonné cristalline. III: Théorèmes d'équivalence et de pleine fidélité. (Dieudonné crystalline theory. III: Theorems of equivalence and of full faith). (French)

[Zbl 0753.14041](#)

The Grothendieck Festschrift, Collect. Artic. in Honor of the 60th Birthday of A. Grothendieck. Vol. I, Prog. Math. 86, 173-247 (1990).

[For the entire collection see [Zbl 0717.00008](#); for part I see Astérisque 63, 17-38 (1979; [Zbl 0414.14014](#)); part II appeared as book, Lect. Notes Math. 930 (1982; [Zbl 0516.14015](#)).]

This is the third in the series of papers devoted to Dieudonné crystalline theory. In the paper under review the authors prove some results announced in part I (loc. cit.). The authors study faithfulness properties of the Dieudonné crystalline functor.

As an application, the authors show that on a liftable proper smooth simply-connected variety each p -divisible group is isoconstant, i.e. isogenous to a constant p -divisible group.

Reviewer: [F.L.Zak \(Moskva\)](#)

MSC:

[14L05](#) Formal groups, p -divisible groups

Cited in **1** Review
Cited in **19** Documents

Keywords:

[Dieudonné crystalline theory](#); p -divisible group

Biographic references:

[Grothendieck, Alexander](#)