

Propriétés de relèvement pour les C^* -algèbres : du local au global ?

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The main problem we will consider is whether the local lifting property (LLP) of a C^* -algebra implies the (global) lifting property (LP). Kirchberg showed that this holds if the Connes embedding problem has a positive solution, but it might hold even if its solution is negative. We will present several new characterizations of the lifting property for a C^* -algebra A in terms of the maximal tensor product of A with the (full) C^* -algebra of the free group \mathbb{F}_∞ . We will recall our recent construction of a non-exact C^* -algebra with both LLP and WEP. This prompted us to try to prove that LLP implies LP for a WEP C^* -algebra. While our investigation is not conclusive we obtain a fairly simple condition in terms of tensor products that is equivalent to the validity of the latter implication.

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