Dear Lipman,

Thanks for your letty. The fiel that for a propa shave X our o field k, every formal an element of Ric (X & k [[H]]), and - toution's in Ric (X & k ((H))), come from the fact that the obstruction to finding the element in Fic (XO, K[T+]]) is in the Brown goon Br(k[[+]]), and that the vide ding in -1. Br le FC+73 -> Br k

is injutive.

The vesult

A vakional (been The o-dimentional is free whenever A is given with - field of vegresus ation & ~ k (A), perfect a mot. The reason for this is that, if X is a deri-guleri-zetin, the explicit construction of Air violets that it's tangual you to the origin is can. ison. to M(X, Dx). This does not contradid your example, as found in of the

local He comments with separath fild extensions h - h' only (just as taking deringularization). The fact that if R is a complete local ring of dim > 3 which is CM (more generally, such that $H_m(R) = 0$), with field of by user tion h c R, h => k(R), should have discrete Pic should follow from resolution. Rushich allows to construct the) and from the earlich construction, as this yields a causuical embedding of the Jangurs Spea to the beal Be into Hm (R). As a consequence, we get that Hm (R)=0 -> Pic (Spu R - 4M) comtable. I forget to say that Iful is so- world to have isolated himpularity (but conjecturally one should be dole to construct the local Ricord seeme without this assumption). In the care of unequal controlin, I would Will conjecture that H2 (R)=0 => Pic (Spar R-fun) countille It may follow from the same organist for pintut teridur field, if we socied to construct stile the local Pic schewe. Maybe you should try this! Artin's general regressed will the over should allow us sust to check if it is ak.