

## A relative version of Weibel's vanishing conjecture

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**Abstract :** In 1980, Weibel conjectured that for a  $d$ -dimensional noetherian scheme  $X$ , the negative  $K$ -groups should vanish after the dimension and the natural map  $K_{-d}(X) \rightarrow K_{-d}(X \times \mathbb{A}^r)$  for all  $r > 0$  should be an isomorphism i.e.  $X$  should be  $K_{-d}$ -regular. Very recently, a complete solution of this conjecture has been given by Kerz-Strunk-Tamme. In this talk, I will discuss a relative version of this conjecture.

**Pre-requisites :** Basic algebra, mathematical maturity will be helpful.