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Layer Lengths and the Fin.dim. Conjecture

In this talk, we present some new results related to the "finitistic dimension Conjecture" Almost all the results are from three joint works (the third in progress) with François Huard and Marcelo Lanzilotta.

Generalizing the Loewy Length and having in mind the finitistic dimension conjecture, we propose the infinite layer length, a new measure of Λ- modules, which is an example of a more general definition: the layer length associated with a torsion theory $(\tau, \cal{F})$.