

Euler class groups and Chow-Witt groups

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Abstract

Given a commutative, Noetherian ring R of dimension n and a finitely generated projective module P of rank n , one is interested in the question of when P splits off a free summand of rank 1. Euler class groups originated to answer this question and have been popular hereabouts due to their “Indian flavour”. However, another theory called Chow-Witt theory also originated to deal with the problem. We will briefly present both, discuss connections between them and state some recent developments which have come out of the latter theory.