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Motives of Grassmannian Bundles

We will briefly recall some properties which are common to several cohomological theories when applied to smooth projective varieties, to motivate Grothendieck's search for a theory of motives. Then we will recall the definition of chow groups of a smooth projective variety and the definition of Chow Motives, with some explicit and simple examples, in particular we will work out the motive of a projective bundle and then will say what the motive of a Grassmannian Bundle should be.

Some of the results in this talk were obtained by my student Carlos Pompeyo in his Ph.D. thesis.