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Duality theorems for pseudo-proper algebraic groups over local function fields

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Abstract

If k is an imperfect field, the class of pseudo-proper commutative algebraic k -groups contains the class of all pseudo-abelian k -varieties introduced by B.Totaro in 2013, as well as some non-smooth and/or non-connected algebraic k -groups. In this talk I will define these groups, as well as their dual generalized k -1-motives, and state a local duality theorem for these objects that extends the well-known Milne-Tate local duality theorems for abelian varieties. No previous familiarity with 1-motives will be required of the audience, but interested participants of this upcoming talk are invited to view the video

<https://www.youtube.com/watch?v=XDjWeRSPJ8k&t=86s>

for basic information about these objects.

References

- [1] GONZÁLEZ-AVILÉS, C.D., *Local duality theorems for generalized 1-motives*, in preparation.

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