ALGEBRA AND NUMBER THEORY
SEMINAR

Principal homogeneous spaces and zero cycles of degree one

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Abstract: Let X be a principal homogeneous space under a connected linear algebraic group G and over a field k. We show that for some of these groups G, if X admits a zero cycle of degree one, then X has a k-rational point. This gives a positive answer for these groups to a question posed by Serre.

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MATHEMATICS AND COMPUTER SCIENCE
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