

1077-22-1929      **Henrik Schlichtkrull\*** ([schlicht@math.ku.dk](mailto:schlicht@math.ku.dk)). *Counting lattice points on homogeneous spaces.*  
We consider a homogeneous space  $Z=G/H$  of a real reductive Lie group  $G$  with a closed connected subgroup  $H$ . The investigation concerns the decay at infinity of smooth functions on  $Z$ , and the results are used to determine the asymptotic density of lattice points on  $Z$  (representing joint work with B. Krotz and E. Sayag). (Received September 21, 2011)