

# 代数宿題5

2014-11-7

1. Let  $p$  be a prime, and let  $\alpha_p$  denote the functor from commutative rings over  $\mathbb{F}_p$  to groups, taking such a ring  $R$  to the group of elements  $r \in R$  satisfying  $r^p = 0$  (where the group operation is addition). Describe the Hopf algebra over  $\mathbb{F}_p$  corepresenting  $\alpha_p$ .

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