

# Queen's Algebraic Geometry — Seminar —

## COHOMOLOGY OF LINE BUNDLES ON COTANGENT BUNDLES OF COMPLETE HOMOGENEOUS VARIETIES

ABRAHAM BROER  
Université de Montréal

### Abstract

Let  $\pi: T^*X \rightarrow X$  be the cotangent bundle on a complete homogeneous space  $X$ . We are interested in describing the cohomology of equivariant line bundles on  $T^*X$  pulled back from  $X$ . Demazure described a trick relating the cohomology of line bundles on  $X$  to the cohomology of more positive line bundles on  $X$ . Somewhat similar tricks sometimes work also for pull-back line bundles with very useful consequences.

Monday 25 October 2010  
16:30 – 17:30  
319 Jeffery Hall