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## **On the equivariant cohomology of isotropy actions**

**30. Oktober 2018 – 16.15 Uhr**  
**Seminarraum IGT, Raum 7.530, Pfaffenwaldring 57**

Abstract: Let  $G$  be a compact connected Lie group and  $K \subseteq G$  a closed connected subgroup. We show that the isotropy action of  $G$  on  $G/K$  is equivariantly formal and (thus) that the space  $G/K$  is formal in the sense of rational homotopy theory whenever  $G/K$  is a  $\mathbb{Z}_2 \times \mathbb{Z}_2$  symmetric space. If  $G/K$  is a symmetric space, we reprove that the isotropy action of  $K$  on  $G/K$  is equivariantly formal using an algebraic model for the equivariant cohomology of such actions.

