

Speaker: Phillip Wesolek

Title: Chief factors in locally compact Polish groups

Abstract: (Joint work with C. Reid.) Chief factors and the chief series play a central role in the theory of finite groups. We show that compactly generated locally compact Polish groups admit an analogue of a chief series. Using the existence of this series, we then show that chief factors necessarily arise in all locally compact Polish groups with sufficiently rich topological structure. Indeed, we describe explicitly the structure of locally compact Polish groups without chief factors.