1139-16-216   **Frauke M. Bleher***, University of Iowa, Department of Mathematics, 14 MLH, Iowa City, IA
52242. *Module theoretic aspects of Iwasawa theory.* Preliminary report.

This talk is about joint work with Ted Chinburg, Ralph Greenberg, Mahesh Kakde, Romyar Sharifi and Martin Taylor about higher codimension Iwasawa theory. Suppose R is a commutative Noetherian domain and M is a finitely generated R-module. The Chern classes of M can be used to describe the support of M as an R-module. If M is torsion and has trivial support in codimension 1, then its first Chern class is trivial and one says M is pseudo-null. In this talk I will focus on a purely module theoretic result which relates the maximal pseudo-null submodules of quotient modules of the top exterior power of M to the maximal pseudo-null submodules of quotient modules of R. I will then indicate how this leads to a result on second Chern classes of Iwasawa modules. (Received February 11, 2018)