

# **ALGEBRA SEMINAR**

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1 pm in HH-3017

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## **Graded fields**

### **Abstract**

After significant progress in the study of group gradings on simple algebras over algebraically closed fields and real closed fields, it is time to look at more general fields. Here one could benefit from the rich theory of fields and division algebras over arbitrary fields. One could also expect that, conversely, endowing fields and division algebras over them with gradings can be useful for their theory and applications.

In this talk, I would like to present few simple results in this direction, like the classification of gradings on finite fields and gradings of some global and local fields by elementary abelian 2-groups.