1048-16-337   **David Harbater**, **Julia Hartmann** and **Daniel Krashen*** (dkrashen@math.uga.edu), Department of Mathematics, University of Georgia, Athens, GA 30602. *Patching subfields of division algebras.*

In 1968, Schacher asked the question of when a given group G could be the Galois group of a maximal subfield in an F-central division algebra for a given field F. Such a group G is called admissible over F. The characterization of such admissible groups is still unknown for global fields, even in the case $F = \mathbb{Q}$. In this talk I will present a complete characterization of admissible groups over the function field of a curve over a complete discretely valued field with algebraically closed residue field of characteristic 0 (and give partial results in the positive characteristic situation). I will also relate the question of admissibility to rationality problems for function fields. (Received February 10, 2009)