**Meeting:**  1006, Lubbock, Texas, SS 3A, Special Session on Classical and Differential Galois Theory

1006-12-231       **Julia Hartmann\*** (`Julia.Hartmann@iwr.uni-heidelberg.de`), Im Neuenheimer Feld 368, 69121 Heidelberg, Germany. *Groups as Differential Galois Groups.* Preliminary report.

One of the central questions in differential Galois theory is the inverse problem: Which groups occur as differential Galois groups? In this talk, I will explain and compare results and methods around this problem for different fields. (Received February 15, 2005)