1026-13-137   **David Harbater** and **Julia Hartmann*** (`julia.hartmann@iwr.uni-heidelberg.de`), IWR, Universitaet Heidelberg, Im Neuenheimer Feld 368, 69120 Heidelberg, Germany. *Patching and differential Galois groups.* Preliminary report.

Patching methods (building a global object by building it locally) are an important tool for solving inverse problems in classical Galois theory. In this talk, we describe a new formulation of patching over fields, which can be used to patch differential modules. We explain applications to the realization of differential Galois groups. (Received February 23, 2007)