1077-20-2439 **Parimala Raman*** (parimala@mathcs.emory.edu), Department of Mathematics and Computer Scienc, Emory University, 400 Dowman Drive Suite 401, Atlanta, GA 30322, and **Eva Bayer-Fluckiger** (eva.bayer@epfl.ch), Ecole Polytechnique Federale de Lasanne, EPFL/FSB/MATHGEOM/CSAG, 1015 Lausanne, Switzerland. *G-Galois algebras and a Hasse principle.*

We explain a local to global principle for the existence of a self-dual normal basis for G-Galois algebras over a number field. A general induction-restriction theorem leads to such a local-global principle under certain constraint on G which is satisfied if the normaliser of a 2-Sylow subgroup S controls the fusion of S in G. (jointly with Eva Bayer-Fluckiger). (Received September 22, 2011)