1056-11-1179 **Bo-Hae Im*** (imbh@cau.ac.kr), Dept. of Math., Chung-Ang University, 221 Heukseok-dong, Dongjak-gu, Seoul, 156-756, South Korea, and **Michael Larsen**, Indiana University, Bloomington.

Generalizing a Theorem of Richard Brauer.

There exists a function $f\colon \mathbb{N} \to \mathbb{N}$ such that for every positive integer d, every quasi-finite field K and every projective hypersurface X of degree d and dimension $\geq f(d)$, the set $X(K)$ is non-empty. This is a special case of a more general result about intersections of hypersurfaces of fixed degree in projective spaces of sufficiently high dimension over fields with finitely generated Galois groups. (Received September 21, 2009)