



Injection Modelling for CHES Lattices

- *CHES Standard (chess_20090225)*
- *CHES 10x4 (chess_h1021_090513)*
- *CHES 11x4 (chess_11x4_20091202)*

Jim Crittenden

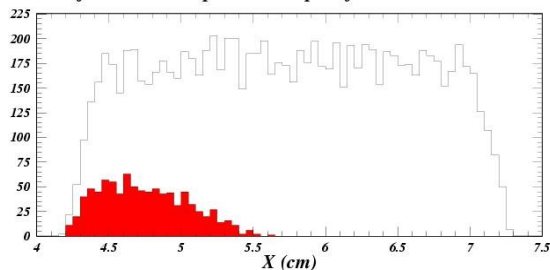
CHES Injection ad hoc Meeting

15 December 2009

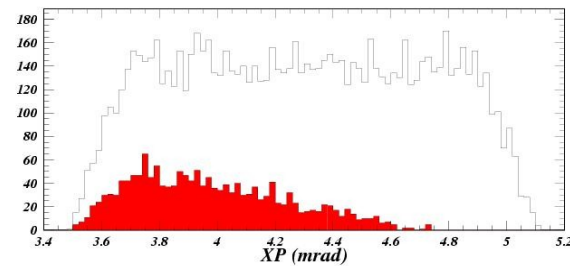
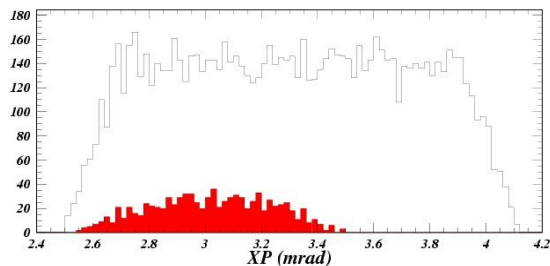
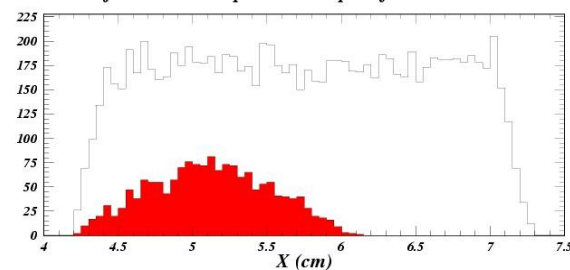


Injected Horizontal Phase Space

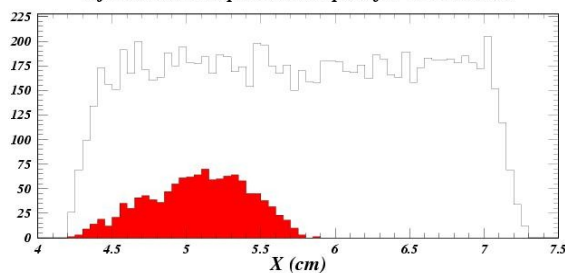
Injected and Accepted Phase Space for CHES Standard



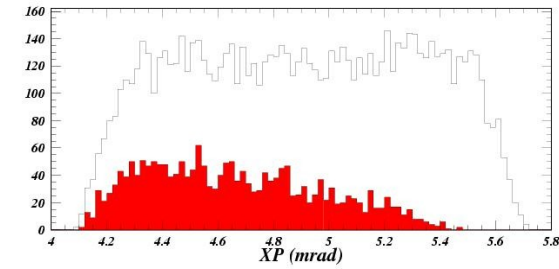
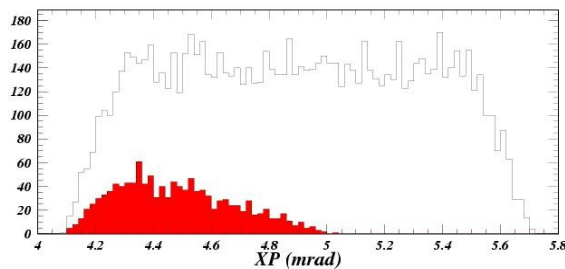
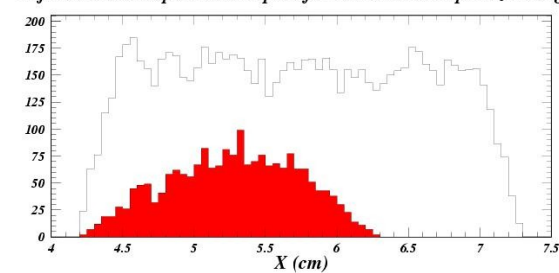
Injected and Accepted Phase Space for CHES 10x4



Injected and Accepted Phase Space for CHES 11x4



Injected and Accepted Phase Space for CHES 11x4 Optimized Finger



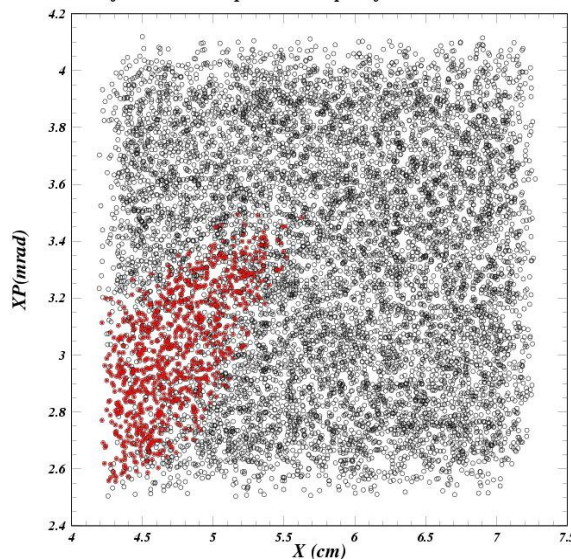


Phase Space Tracking

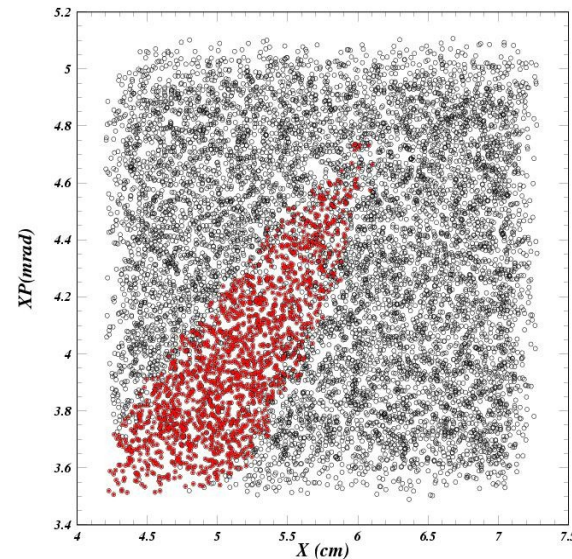
Injected electrons thrown 6D flat over ± 5 sigma

*Injected
Horizontal Phase Space*

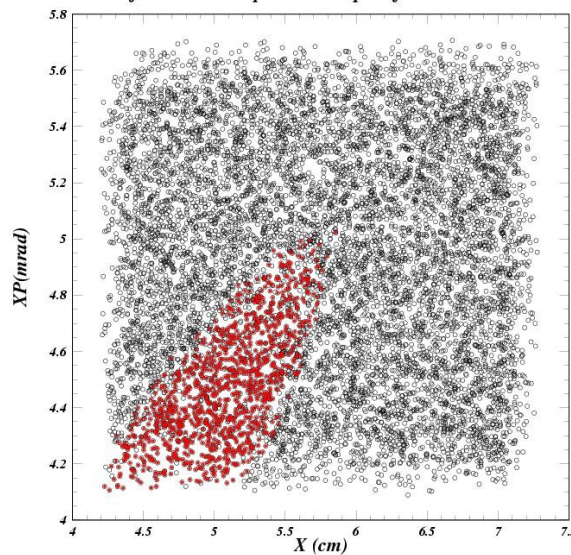
Injected and Accepted Phase Space for CHESS Standard



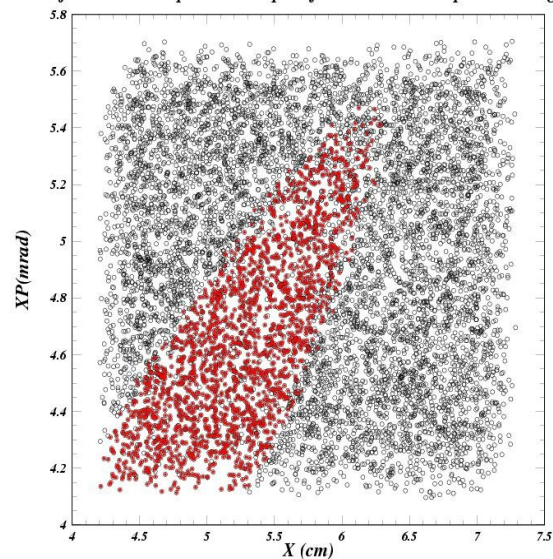
Injected and Accepted Phase Space for CHESS 10x4



Injected and Accepted Phase Space for CHESS 11x4

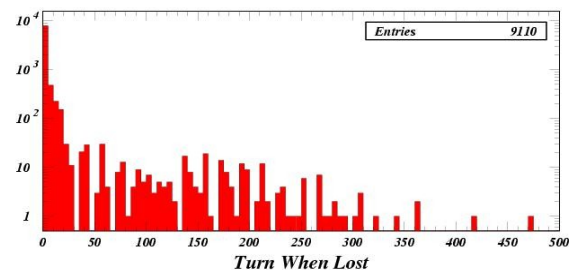
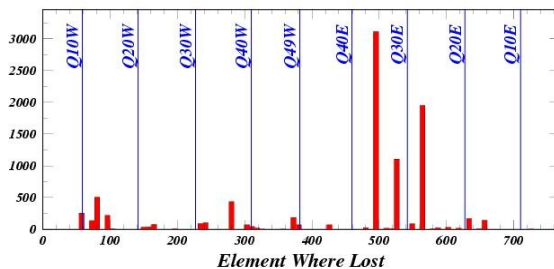


Injected and Accepted Phase Space for CHESS 11x4 Optimized Pinger

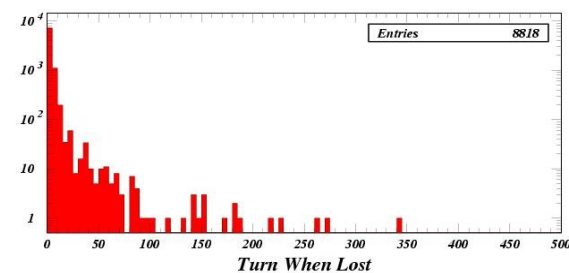
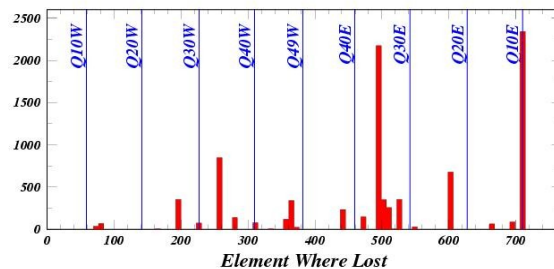




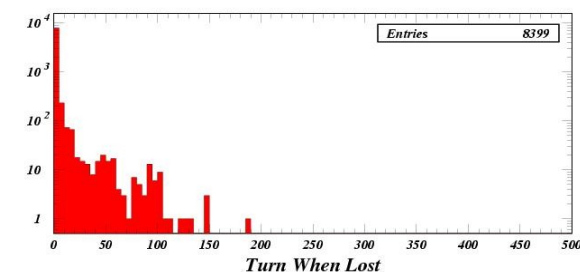
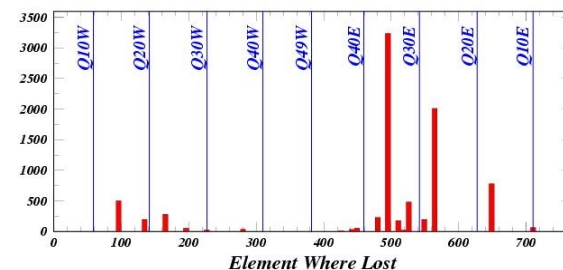
CHES Standard: Lost Where and When



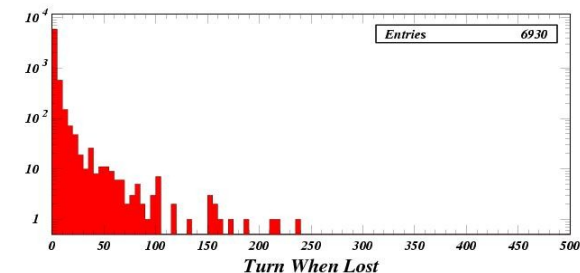
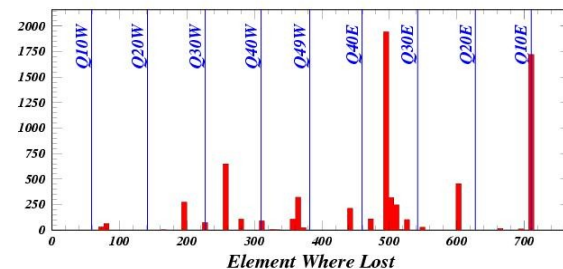
CHES 11x4: Lost Where and When



CHES 10x4: Lost Where and When



CHES 11x4 Optimized Pinger: Lost Where and When



*S Position
and
Turn Number*



job_1965: Aperture Limits and Horizontal Beam Sizes

