





ILC BSY Tune-up Dump Issues

- most recent NLC design (May 2003)
 - high bandwidth (±20% acceptance to dump)
 - uses scaled SLC SBD kicker magnets to extract (abort & tune-up)
 - has no beam energy diagnostics
 - extraction timing (kicker pulse length, etc.) not considered
- Brett Parker's "fast extraction" design (March 2003)
 - purpose-designed magnets
 - incorporates energy diagnostic chicane
 - minimal optics
- design a hybrid system for ILC
 - proper diagnostics and timing for ILC bunch trains
 - Brett's magnets (perhaps updated designs)
 - high bandwidth
 - PĂC'05 abstract submitted, but ...

NLC2003





Brett's 2003







See Brett's presentations at: <u>http://www.slac.stanford.edu/~mdw/ILC/Fast_Extraction/BParker20030319.pdf</u> and <u>http://www.slac.stanford.edu/~mdw/ILC/Fast_Extraction/BParker20030415.pdf</u>







What's Next

- achromat optics
 - 1st 8 cm bore quad ... Panofsky?
- timing issues
- revisit dump window survivability ... do we need to "paint"?
- tracking studies
- ... not in time for PAC'05 (*mea culpa*)