Present Study Strategy

- Integrate 225 pb\(^{-1}\) by August 25, 2003
- Parasitic Studies
  - Affect stacking timeline only
  - Studies permitted only when stack reaches > 80% (120mA) of target value (160 mA)
  - Study cycles can only occupy 20% of stacking timeline
- Priorities
  - Run II short term
  - Run II long term
  - NUMI
  - Switchyard 120
- Exceptions
  - Study cycles that can fit in between stacking cycles
  - Maintenance studies (Pbar stacking)
  - Recycler one-shots
Present Study Strategy

- **TEV Studies**
  - 4 hours every other store
  - Focused studies
    - New high energy ramp helix
    - Injection lattice matching
      - Lattice measurements
      - Emittance characterization
  - Maintain at least 70 hours of stores per week

- **Dedicated Pbar Studies**
  - On hold
Recycler “Pbar Tax”
- 25% of the Pbar stacking time line will go to Recycler commissioning
- Uses of the tax
  - MI Access time
  - Proton events
  - Pbar transfers

Present 80% Stack size / 20% Time-line strategy
- Stack Size target will be reduce from 160 mA to 130 mA because of the Recycler Pbar Tax.
- Studies would start at stack sizes of 105 mA
A study period would begin only if the previous 14 days contained 140 hours of store time.
FY04 Dedicated Study Strategy

- Study periods would occur twice a week.
- Study periods will be short (8-12 hours)
- There would be at least two stores between each study period.
- Pbar studies would occur 16 hours ahead of TEV studies.
  - This would allow for 16 hours of stacking by the time the TEV is finished with studies.
  - We would try to engineer store lengths so that studies would begin at predictable times
    - Pbar Studies would aim at starting at 4pm on Monday and Thursday
    - TEV Studies would aim at starting at 8am on Tuesday and Friday
FY04 Dedicated Study Strategy

- Studies would be blocked according to themes.
  - We would only focus on few problems at a time, for example:
    - TEV injection lattice mismatch
    - TEV High energy ramp helix
  - At the end of the study block (or theme) a short write-up (TEV Note or Pbar Note) describing the results of the studies would be expected.

- Maintenance studies would occur at the discretion of the Run Coordinator.
  - i.e. TEV orbit smoothing
  - or Pbar cooling phasing