Draft List of New Applications Required for LIU-PSB

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Fixdisplays or Vistars

- **Linac IV**
  - Status of the source
  - Status RF
  - Transfer efficiency

- **BLM Display**
  - Linac IV
  - Injection
  - Rings
  - Ejection

- **Injection 4 rings**
  - H0/H- current history
  - Foil current history
  - Position
Cruise control (OP Display)

- Control
  - Number of turns injected (timings, instrumentations,)
  - Chopping scheme (Table) depending of the beam type (High, Medium or Low Intensity)
  - Transverse painting (KSW)
  - Energy modulation

- Display
  - BCT (Transfer line, injection, injection + 100 turns)
  - BCTs efficiencies
  - Interlocks (BIS, SIS, External conditions)
Instrumentations

- Turn by turn BPM acquisitions
  - YASP
  - Injection oscillations
  - Optics measurements
  - FFT
  - Tune measurement
- BLM Displays (LHC type)
  - Control: Thresholds and maximum counters.
  - Display the losses during the spill and the cycle (+ Samplers)
- Matching monitor
  - Display Mountain range
- New wire scanners
YASP
- Injection trajectory
- Chicane Bump
- Ring trajectory

POPSB
- Cycle editor
- Tune editor
Control and acquisition with standard CO tools

Knobs
- Distributor
- Angle and position with corrector magnet 50/70 (makerules)
- BSW
- KSW
- $\Delta QH$ and $\Delta QV$ (makerules QSTRIP)

Vertical beta-beating compensation
- Makerules to superpose the nominal QSTRIP functions with the compensation function
- Stripping Foil Unit control
- Trim power supplies for special inj and ext bending magnet
- Vertical Septum

OASIS
- DIAMOND BLM
- BSW, KSW, Qstrip, ...
- H0, H- monitor
- Injection scrapers
- BTP Wide-band pick-up

Logging