

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
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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)
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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**
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YASP

- **Injection trajectory**
- **Chicane Bump**
- **Ring trajectory**

POPSB

- **Cycle editor**
 - **Tune editor**
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Control and acquisition with standard CO tools knobs, function editor and OASIS

- Knobs
 - Distributor
 - Angle and position with corrector magnet 50/70 (makerules)
 - BSW
 - KSW
 - ΔQH and ΔQV (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
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