Software test and experimental results

✓ Testing correctness of online context, 'transactions' etc. (knobs and orbit correction) – ok. Feedback: probably need an 'immediate trim' application.

    Current sequence:

    1. Compute settings -> create knob-> save knob in db -> generate initial knob settings -> knob available for trim

    2. Compute settings (orbit correctors) -> load into yasp-> trim

    Proposed sequence (to be discussed):

    1. Compute settings -> if necessary trim (in fractions) -> save settings as a knob if useful

✓ Knob creation – software ok

✓ Orbit correction – software ok ; cross-check with yasp ok; no beam check due to bad bpms;
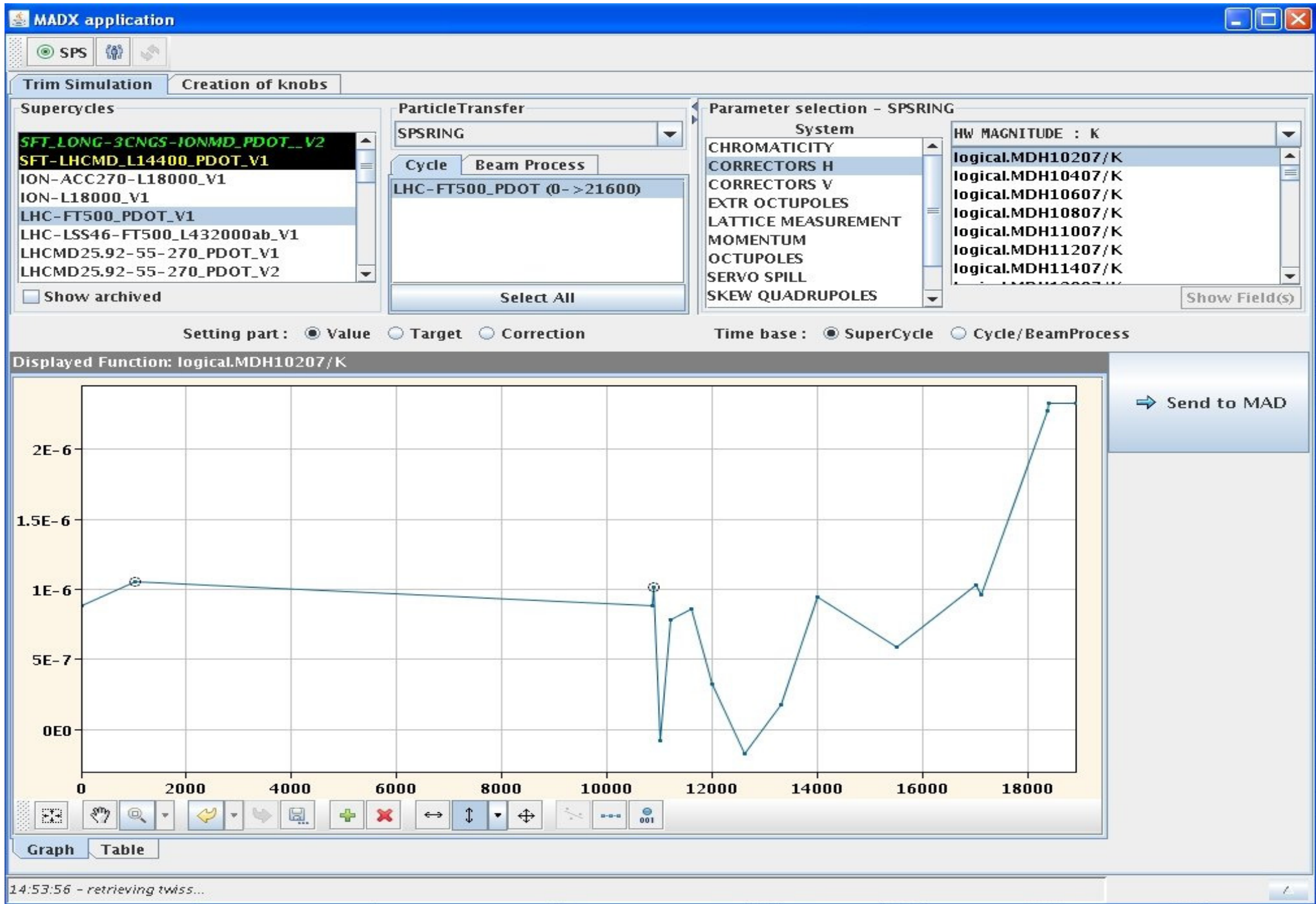
✓ Multi-turn data for coupling analysis (Frank)

Immediate plans (October 2007)

✓ TI2 commissioning – to be defined (compare optics to beam screen data, match optics,...)

✓ Finishing trim simulation application (see this slides, later)

✓ Testing trim simulation during remaining SPS run (including optics model benchmark)

Longer term plans

✓ Sliding bump application; LSA knob application run through OM server (ML et al.)

✓ On-line repository for LHC (including model selection, fitting procedures etc.)

✓ Testing trim simulation and others with LHC supercycles

✓ Write documentation

✓ Release in the strict sense

✓ Analysis toolkit – many bits and pieces available but needs organising

Trim simulation screen-shots (from Jutta Netzel)

Trim simulation screen-shots