

SPM head overview

Current state of SPM head

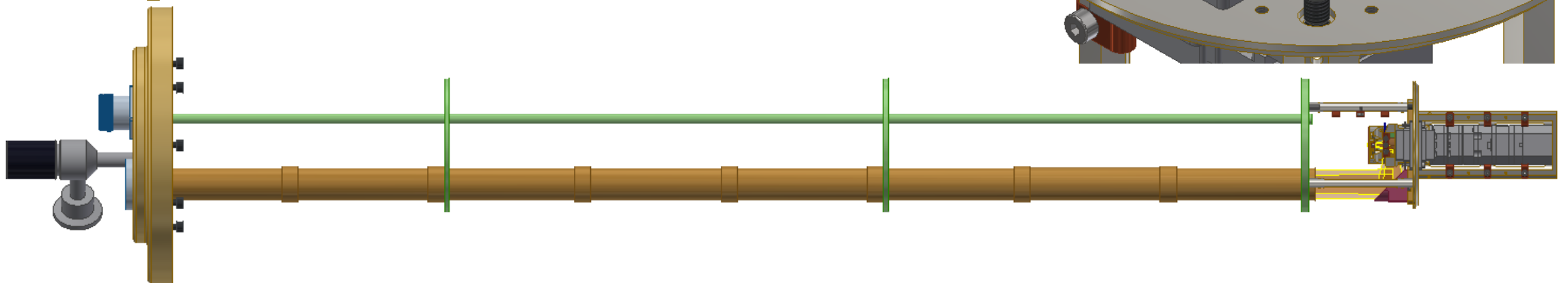
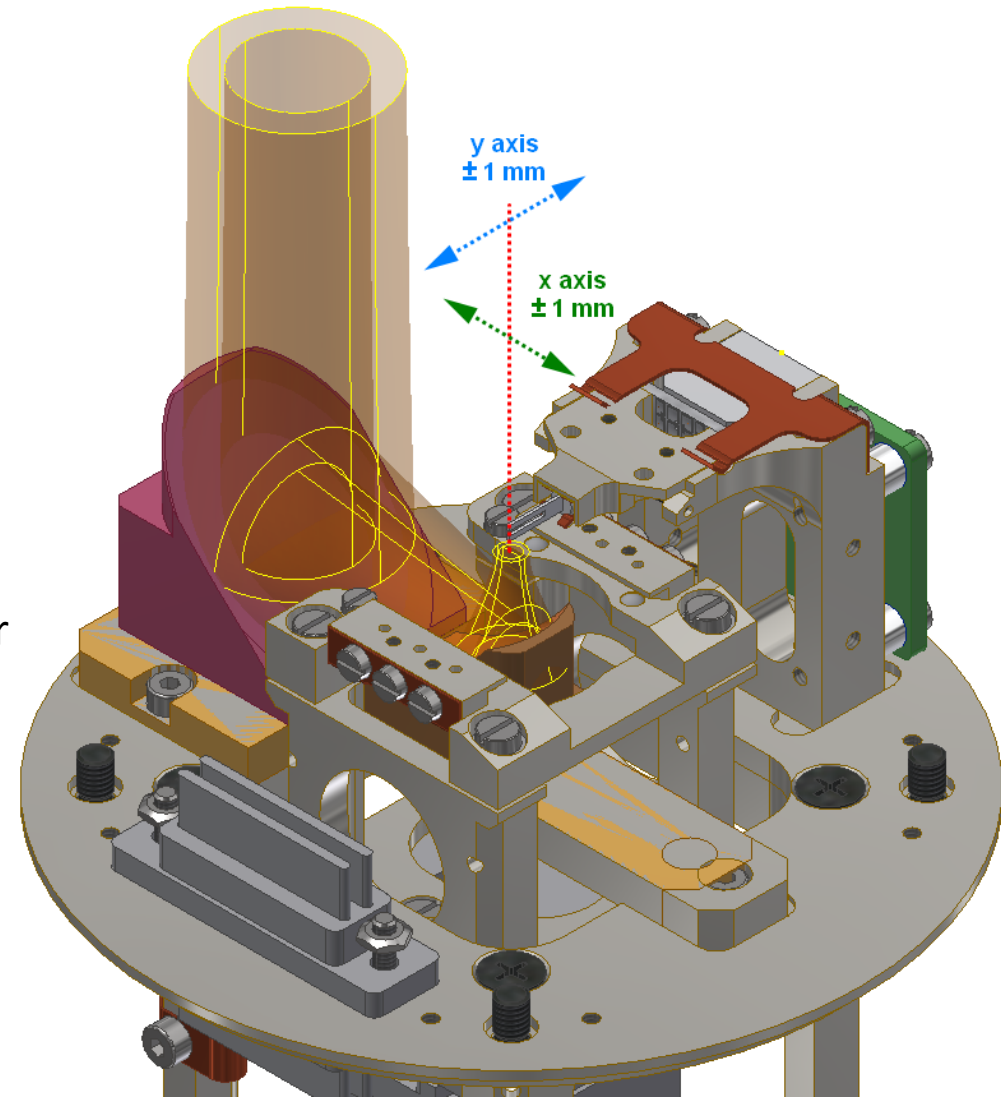
- Finalising the design
- Angular error check

Added 2 degrees of freedom

- Y axis - BUT - ± 1 mm - positioning sensor
- X axis - TK - ± 1 mm - positioning mirror

Next step

- Cable management
- Connectors



SPM system overview

Preamplifier

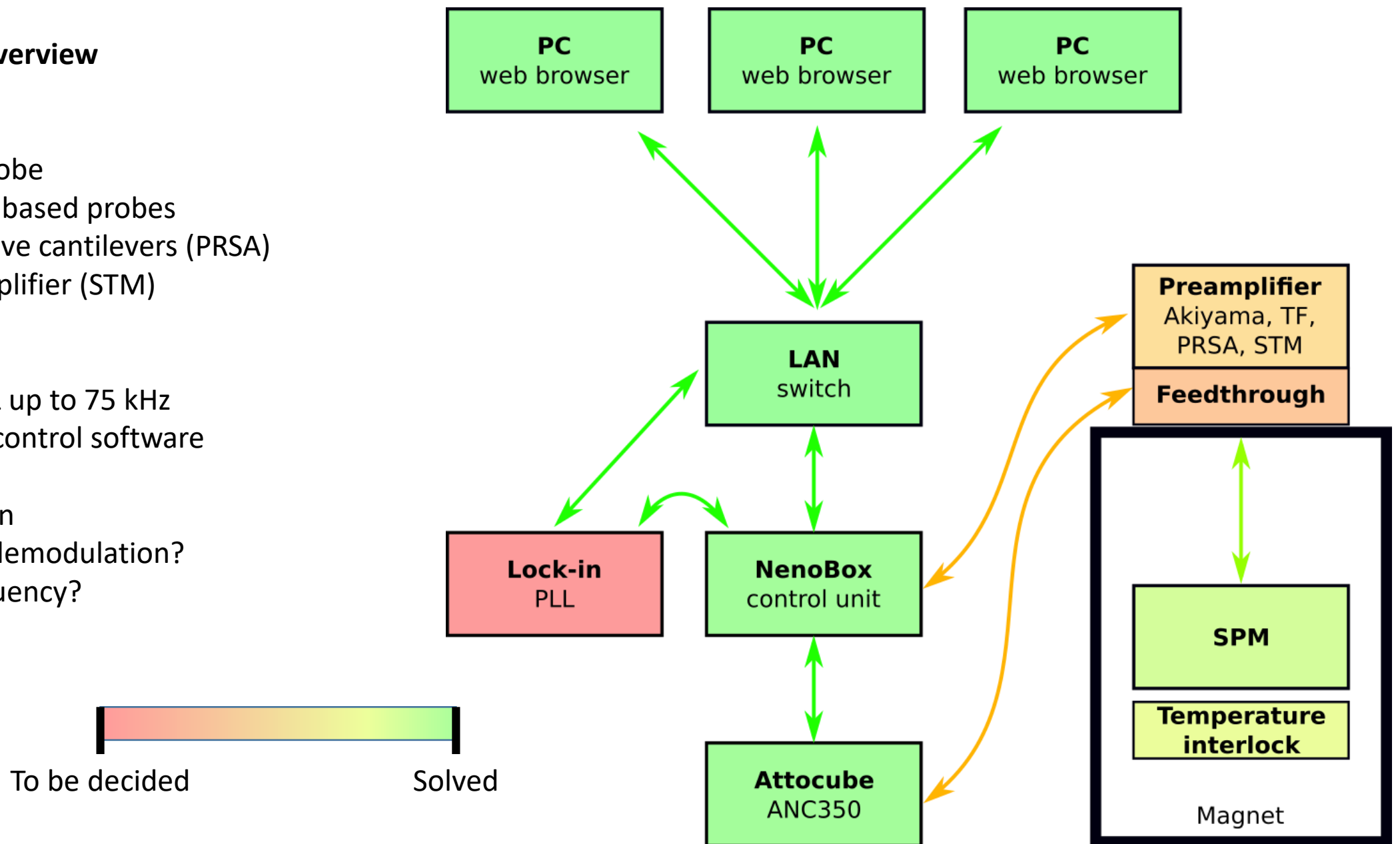
- Akiyama probe
- Tuning fork based probes
- Piezo resistive cantilevers (PRSA)
- Current amplifier (STM)

NenoBox

- Internal PLL up to 75 kHz
- NenoView control software

External Lock-in

- EPR signal demodulation?
- Target frequency?



To be decided

Solved