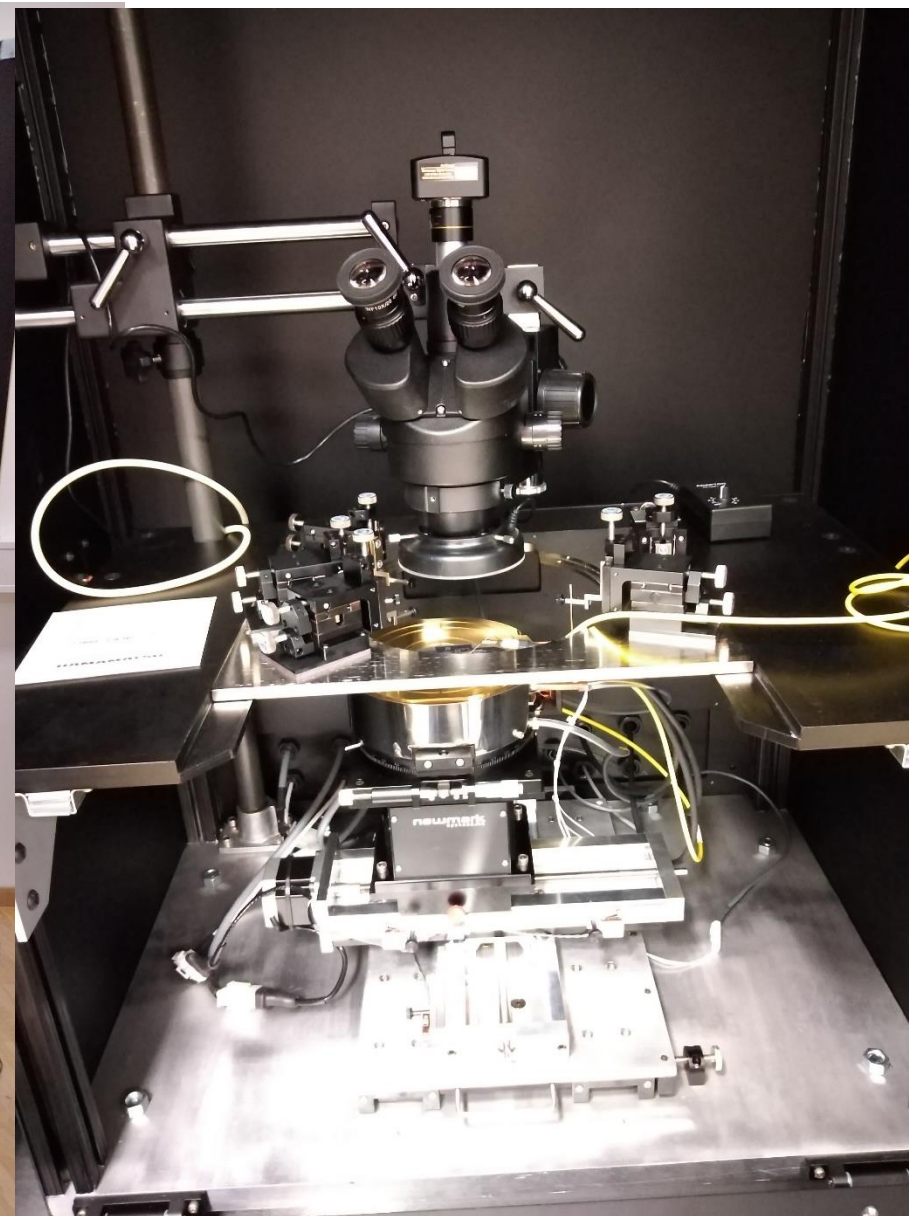
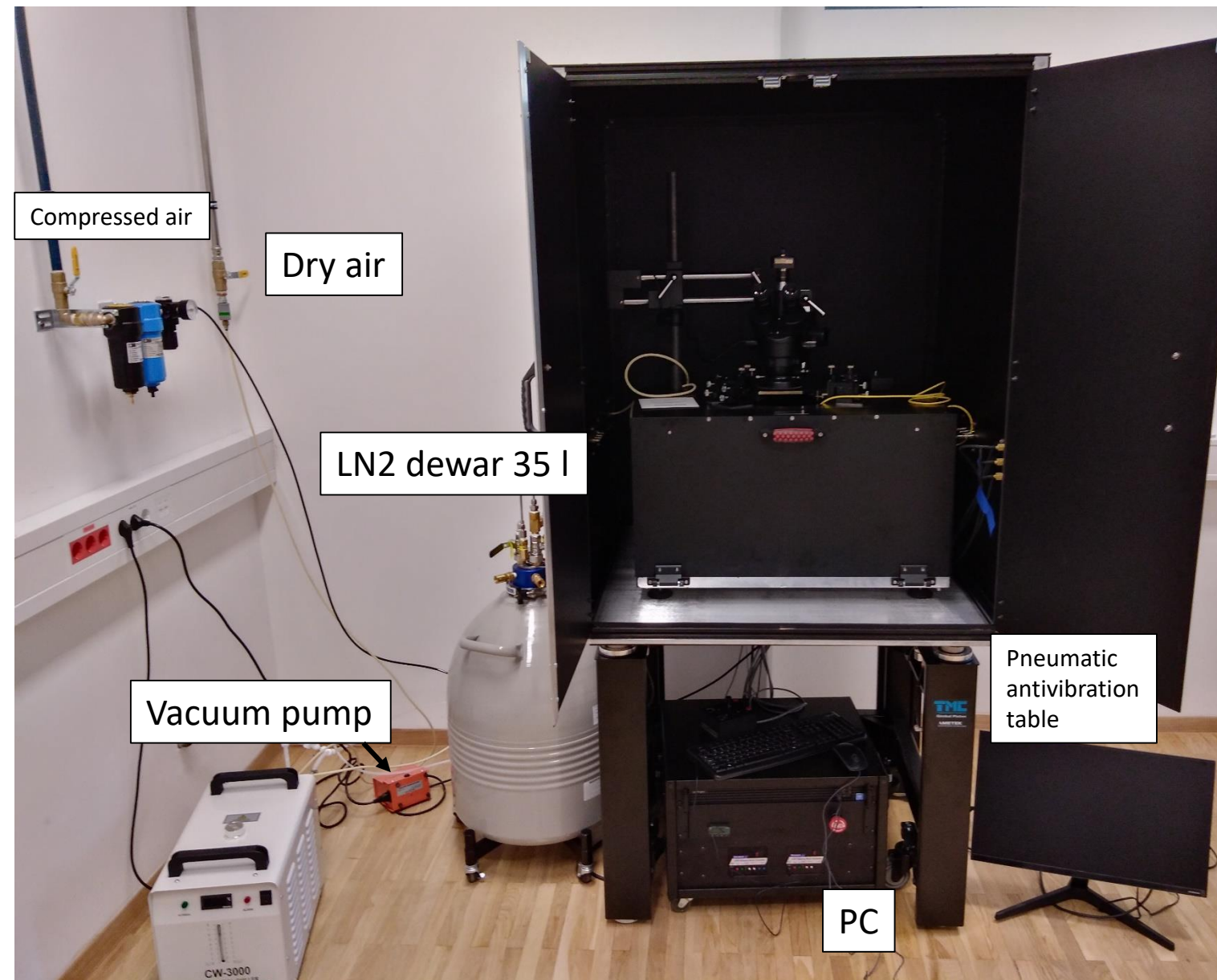
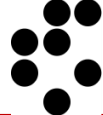
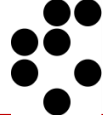


Microxact semi automatic probe station

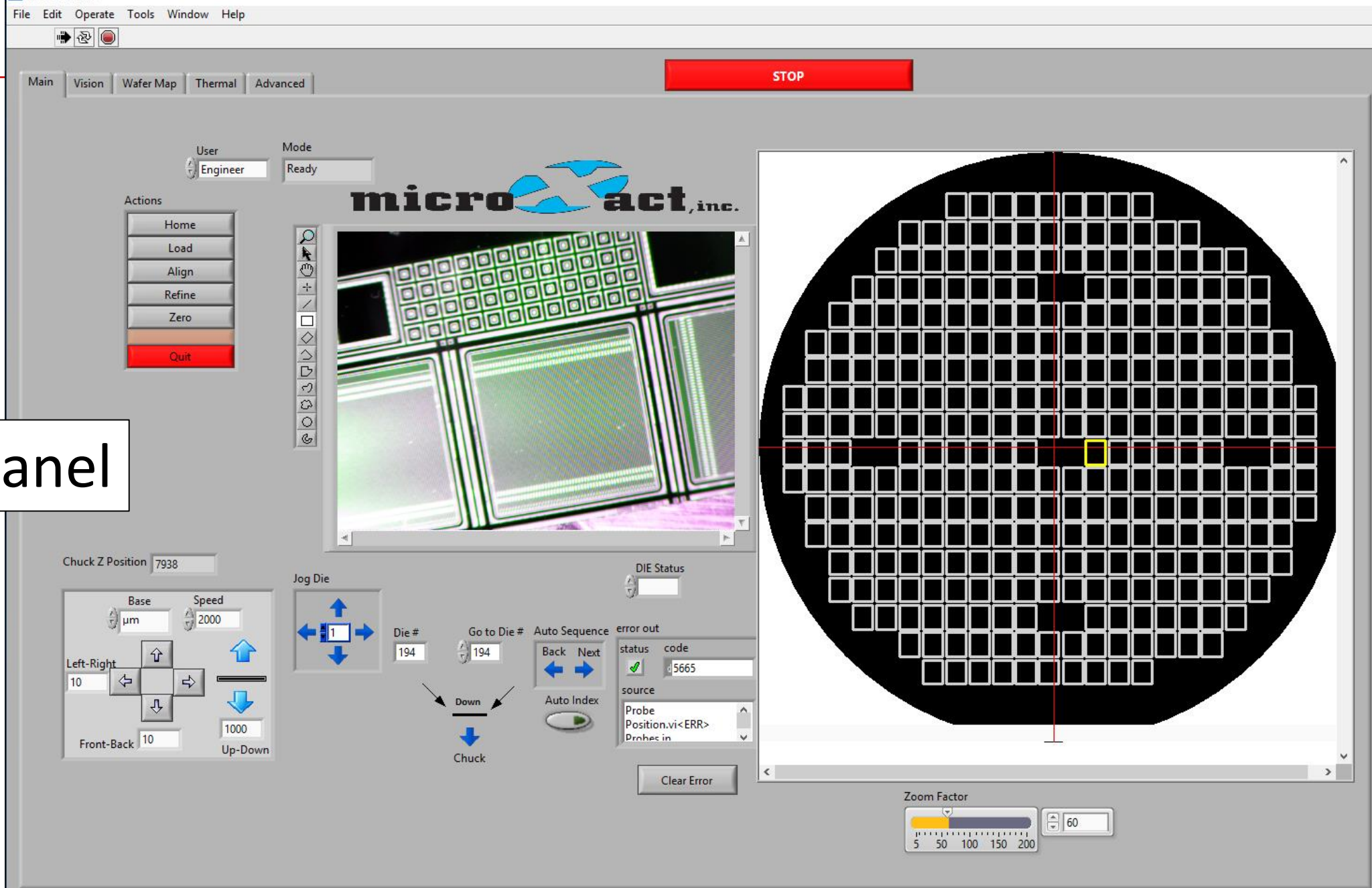
F9 weekly meeting, 15. 04. 2022

Bojan Hiti, F9, Jožef Stefan Institute (JSI)





- 15 cm vacuum chuck
 - Temperature control – 50 °C → 200 °C (LN2 cooling, electric heater)
 - 6 probe needle manipulators
- 3-axis (x,y,z) motorized stage, joystick or GUI controlled
- Automated periodic structure (wafer) inspection
 - 3-point/4-point manual alignment, then moving to any fixed calculated position
 - Needle contacted to sample only on first alignment point
 - On remaining alignment points sample driven with stages until contacting
- Microscope mount conditionally movable, might be necessary with large dies
 - Field of view approx. 35 mm
- User: operator/technician/engineer (password microxact)



GUI main panel

GUI wafer panel

SPS-2600-B.vi

File Edit Operate Tools Window Help

Main Vision Wafer Map Thermal Advanced

STOP

Wafer Lot Number Wafer SN

File Type

Die Dimensions

Width (mm) Spacing X (μm)
Height (mm) Spacing Y (μm)

Wafer Dimensions

Shape Width (mm)
Height (mm)
Edge Exclusion(mm)

Flat Wafer Action

Draw Type Standard Types Die Count

Microsite Definition

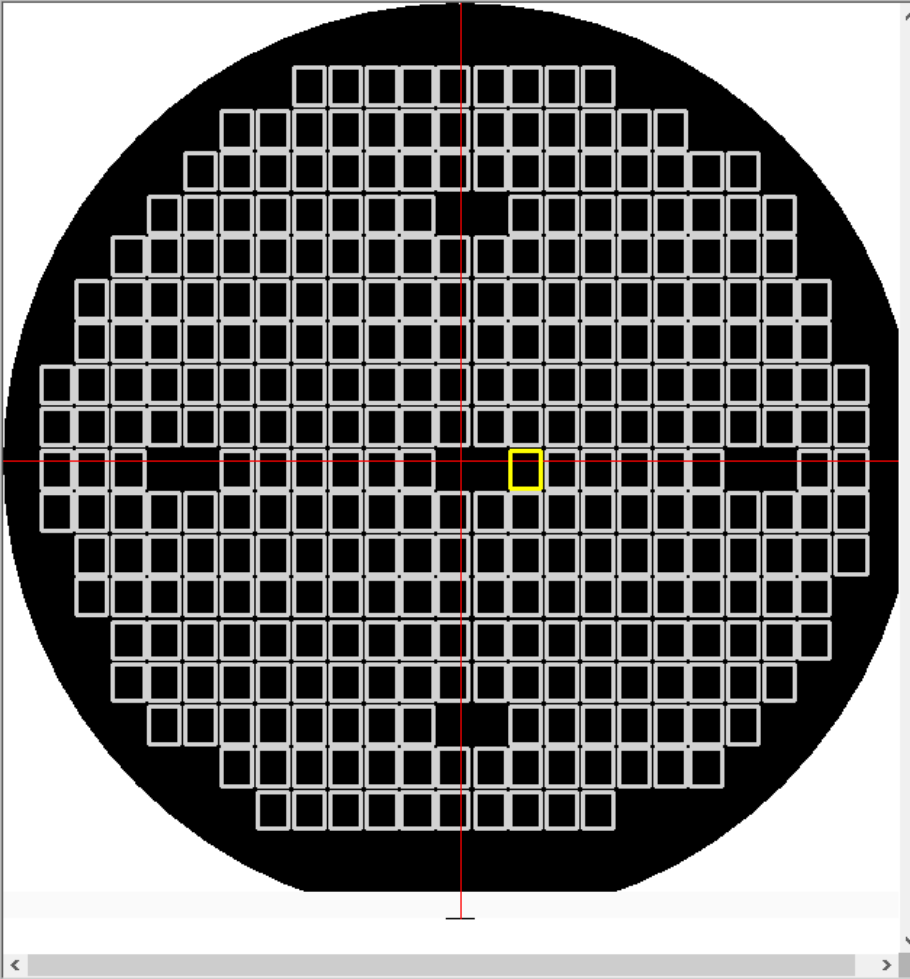
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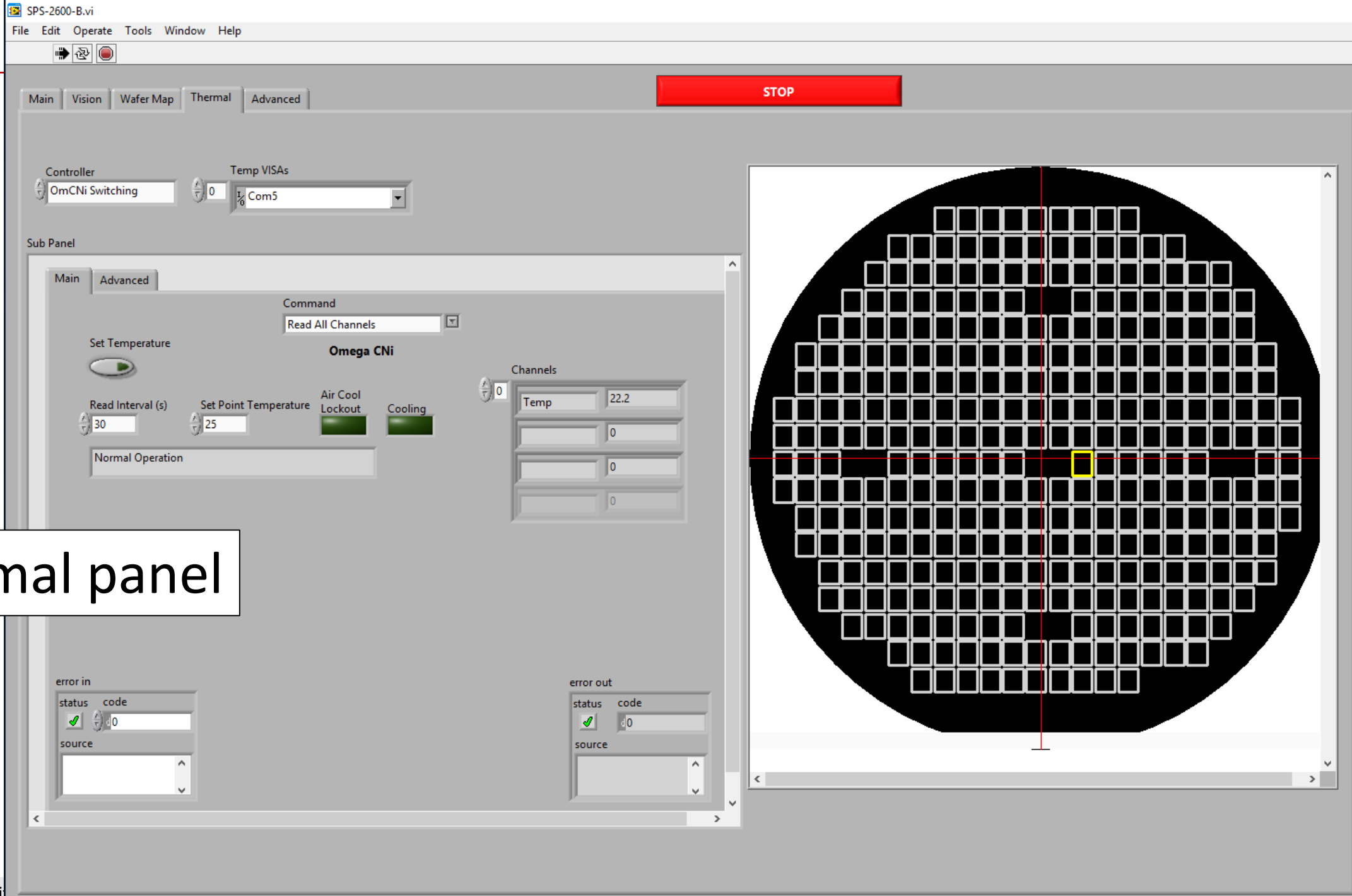
SET

Create Wafer Results

Coordinates

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<input type="text" value="2440"/> T	<input type="text" value="2440"/> T	<input type="text" value="2440"/> T	<input type="text" value="2440"/> T	<input type="text" value="2440"/> T	<input type="text" value="2440"/> T	<input type="text" value="2440"/> T
<input type="text" value="41380"/> R	<input type="text" value="45530"/> R	<input type="text" value="49680"/> R	<input type="text" value="53830"/> R	<input type="text" value="57980"/> R	<input type="text" value="62130"/> R	<input type="text" value="66280"/> R
<input type="text" value="7200"/> B	<input type="text" value="7200"/> B	<input type="text" value="7200"/> B	<input type="text" value="7200"/> B	<input type="text" value="7200"/> B	<input type="text" value="7200"/> B	<input type="text" value="7200"/> B
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GUI thermal panel