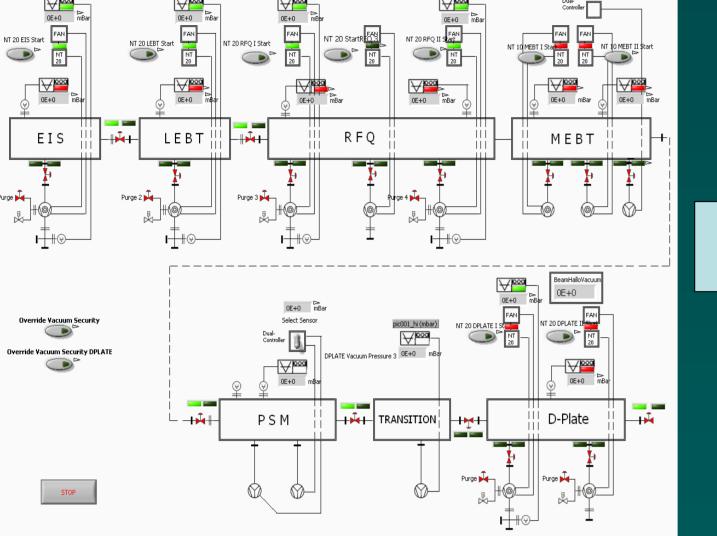
SARAF Beam Lines Control Systems

E. Reinfeld, I Gertz, I Eliyahu, A Grin, L Weissman. A Perry, Soreq NRC, Yavne 81800, Israel

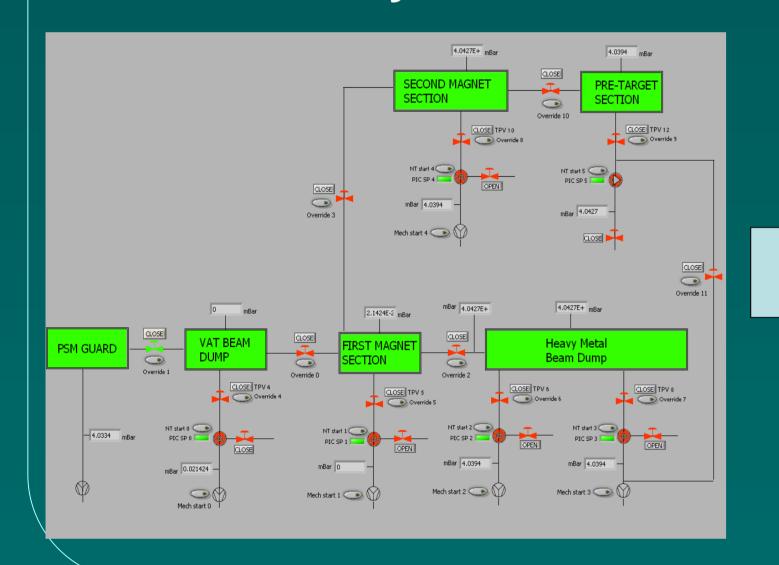
Beam lines vacuum control system redesign

Accelerator and beam lines vacuum control systems redesigned and rebuilt. The new solution provides full control over all of SARAF vacuum elements.

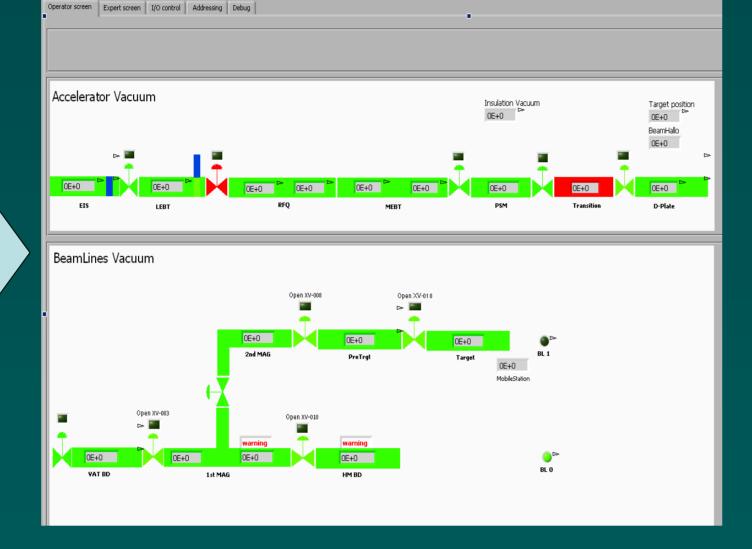
Old Accelerator vacuum control system



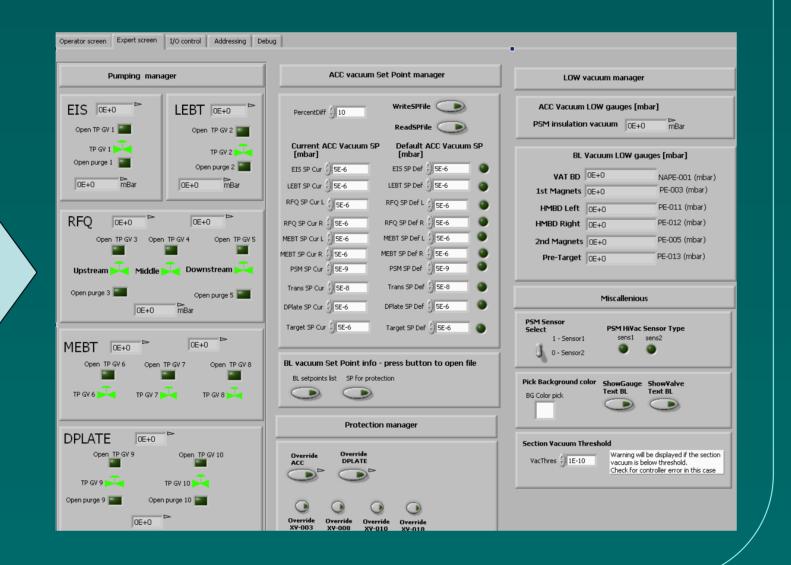
Beam lines vacuum control system



Full redesigned vacuum control system operator screen

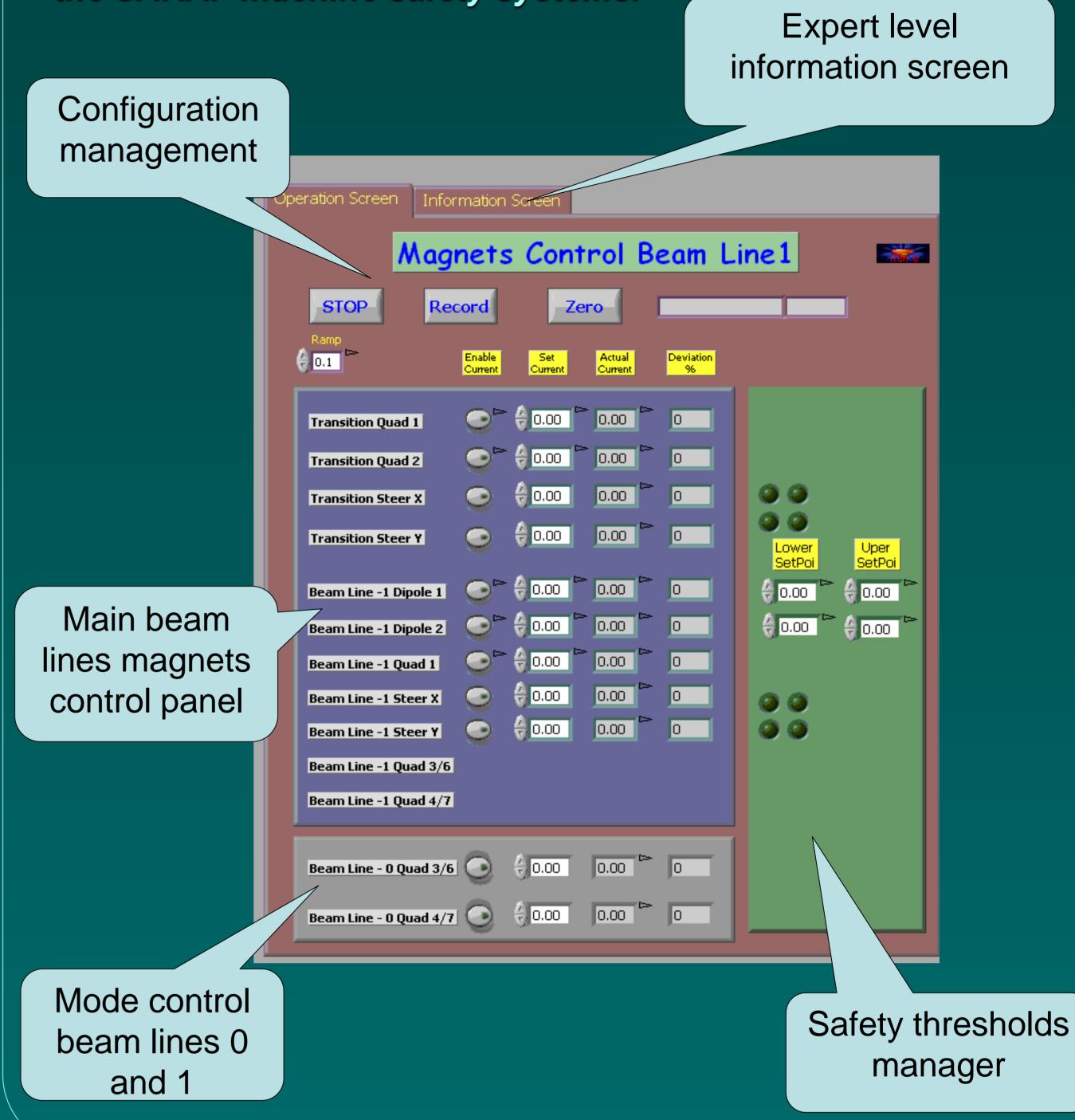


Full redesigned vacuum control system expert screen

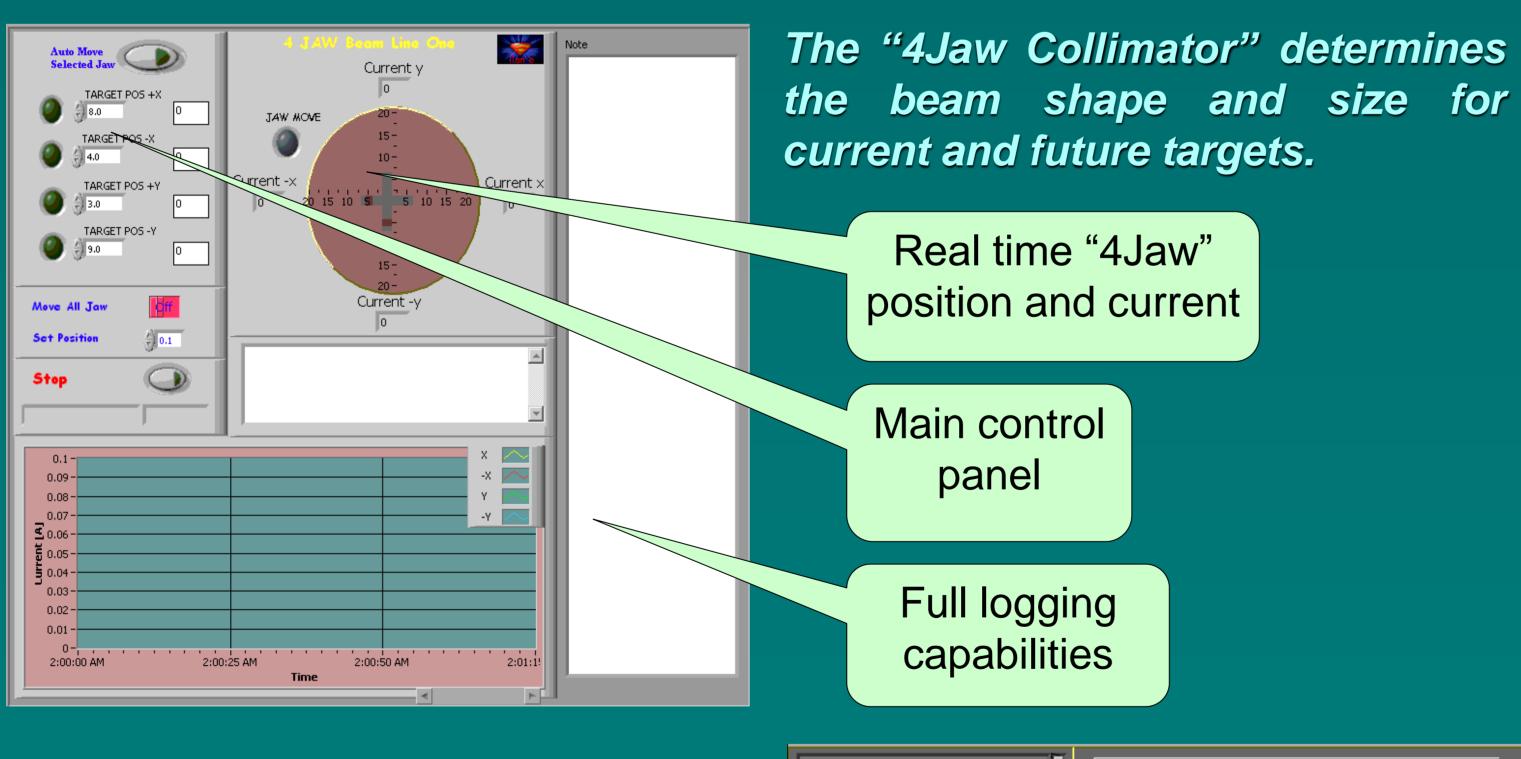


Control of beam optics elements

This control system provides full control of the beam lines magnetic optical elements. The system is fully entwined with the SARAF machine safety systems.

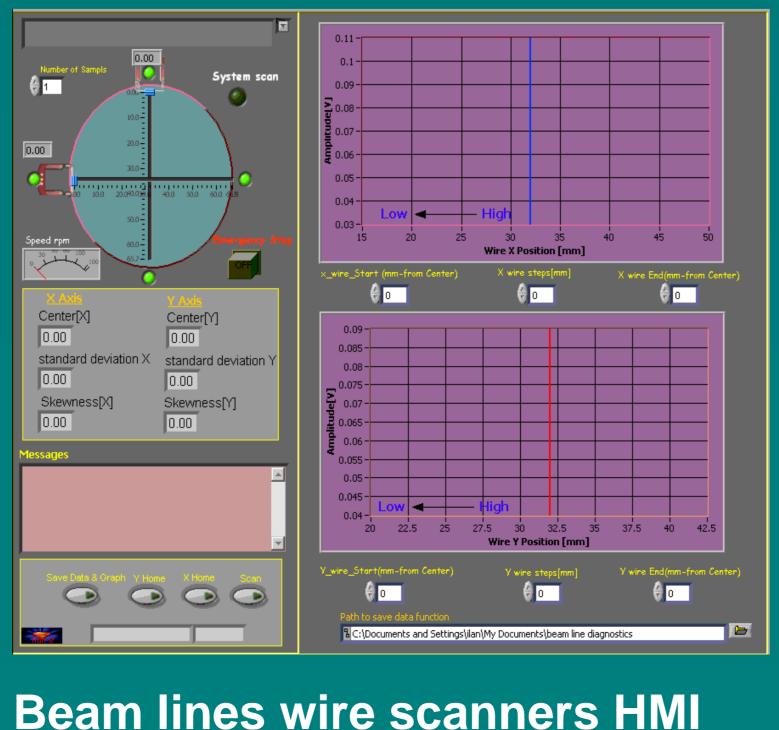


Beam diagnostics control



The new beam lines wire scanners control system consists of more reliable hardware.

The control application includes more information (wire position, beam statistics ETC) and a better interface for the operators.



Vacuum Logics Motion and Diagnostics Magnets CFP-DAQ PXI 8108 CRIO 9014