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CESR Vacuum System Monitoring and Component Quality Assurance

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Cornell Electron Storage Ring supports three science programs, the CLEO High Energy Physics Experiments, the Cornell High Energy Synchrotron Sources and the Accelerator Physics and R&D. The reliability of the CESR vacuum system is essential to the success of these science programs. A network of 70+ cold cathode ion gauges, RGAs and over thousand of thermal couples monitor the performance and operational safety of the CESR vacuum systems. Routine inspection and scheduled preventive maintenance programs are implemented to reduce unscheduled vacuum system downtime. A strict quality assurance program is enforced to assure that all new vacuum chambers and components meet adequate specification and satisfactory quality.

Author: Dr LI, Yulin (Laboratory for Elementary-Particle Physics, Cornell University)

Presenter: Dr LI, Yulin (Laboratory for Elementary-Particle Physics, Cornell University)

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