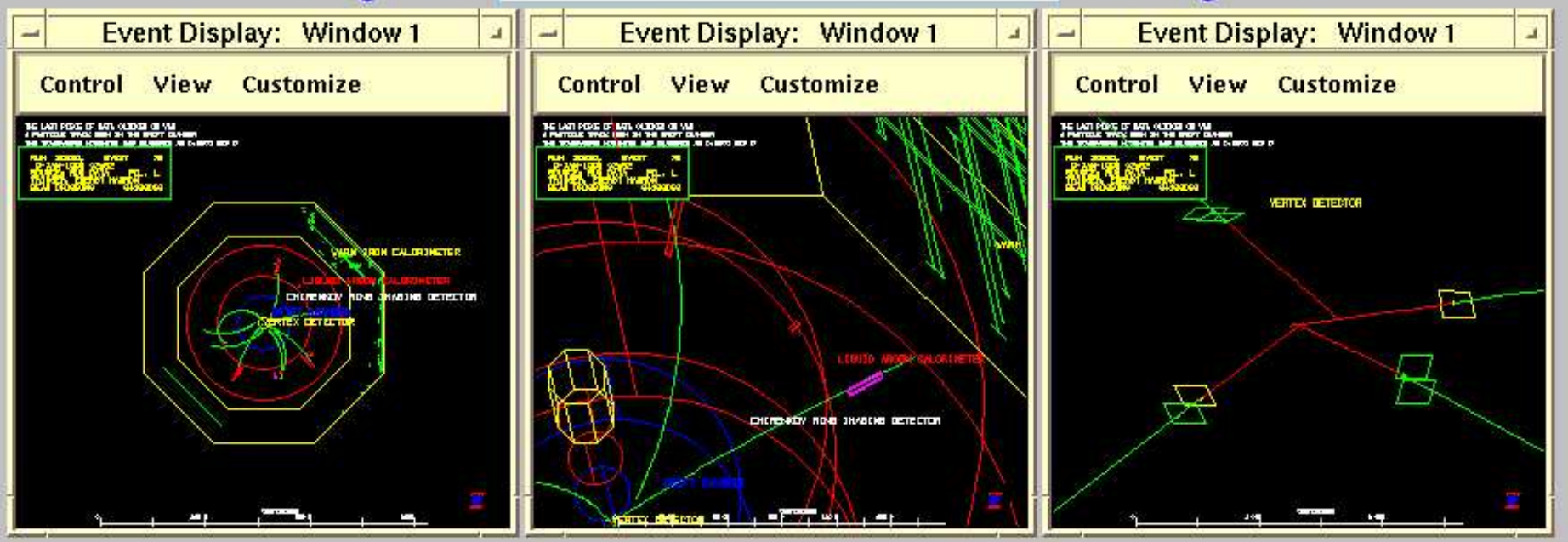
The SLD Interactive 3D Real–Time Event Display



The computer below shows the results of electron–positron collisions as physicists see them in SLAC's SLD detector. Physicists at SLAC use this "Event Display" program to study the behavior of the Z particle.

The SLD detector is a three story high structure that sits at the interaction point of the Stanford Linear Collider. When one looks at it, one sees a mass of wires, conduits and pipes disappearing into an immense structure of iron and scaffolding. Data emerges from the detector through thousands of channels of complex electronic circuitry. To "see" what's going on inside the detector, physicists use computer–generated visualizations such as this display.

The data you see here represents the most recent Z particle events recorded by the SLD detector. If SLD is currently running, you can see the particle physics interactions here in real time, just as fast as any of the physicists are seeing them.