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Using Zoom Technologies To Display HEP Plots and Talks

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Particle physics conferences and experiments generate a huge number of plots and presentations. It is impossible to keep up. A typical conference (like CHEP) will have 100's of plots. A single analysis result from a major experiment will have almost 50 plots. Scanning a conference or sorting out what plots are new is almost a full time job. The advent of multi-core computing and advanced video cards means that we have more processor power available for visualization than any time in the past. This poster describes two related projects that take advantage of this to solve the viewing problem. The first, Collider Plots, has a backend that looks fro new plots released by ATLAS, CMS, CDF, and DZERO and organizes them by date, by experiment, and by subgroup for easy viewing and sorting. It maintains links back to associated conference notes and web pages with full result information. The second project, Deep Conference, renders all the slides as a single large zoomable picture. In both cases, much like a web mapping program, details are revealed as you zoom in. In the case of Collider Plots the plots are stacked as histograms to give visual clues for the most recent updates and activity have occurred. Standard plug-in software for a browser allows a user to zoom in on a portion of the conference that looks interesting. As the user zooms further more and more details become visible, allowing the user to make a quick and cheep decision on whether to spend more time on a particular talk or series of plots. Both projects are available at http://deeptalk.phys.washington.edu. The poster discusses the implementation and use as well as cross platform performance and possible future directions. A demo will be shown.

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