Optimizing SiD before Warsaw 5/4/08

I. Variables to Study in Pandora
Performance vs Z
Performance vs Hcal Segmentation
Performance for RPCs

II. Confirmation of Pandora Trends with Mat's and Steve's PFA code
Study performance for 100 GeV jets vs R, Z, B, lambda, segmentation

III. Refine Marty's Optimization Study
More realistic parameterizations of jet energy resolution for error vs resolution studies.
New parameterizations of performance vs R,Z, B, lambda, segmentation.
What energy jets?

IV. Better understanding of the basics
What jet energies do we care about at 500 GeV; at 1 TeV?
What part of dijet mass resolution is due jet energy resolution? QCD effects? jet angle and jet mass resolution?
What, beyond improvements in dijet mass resolution, are benefits of very good jet energy resolution? Does the physics justify moving beyond delta E/E of 4%?

We should plan on a SiD Collaboration Phone meeting the week before Warsaw to summarize progress before Warsaw. Could be Thursday, June 5, 8AM US; 4PM UK; 5PM Europe.