

nEDM Engineering Plan

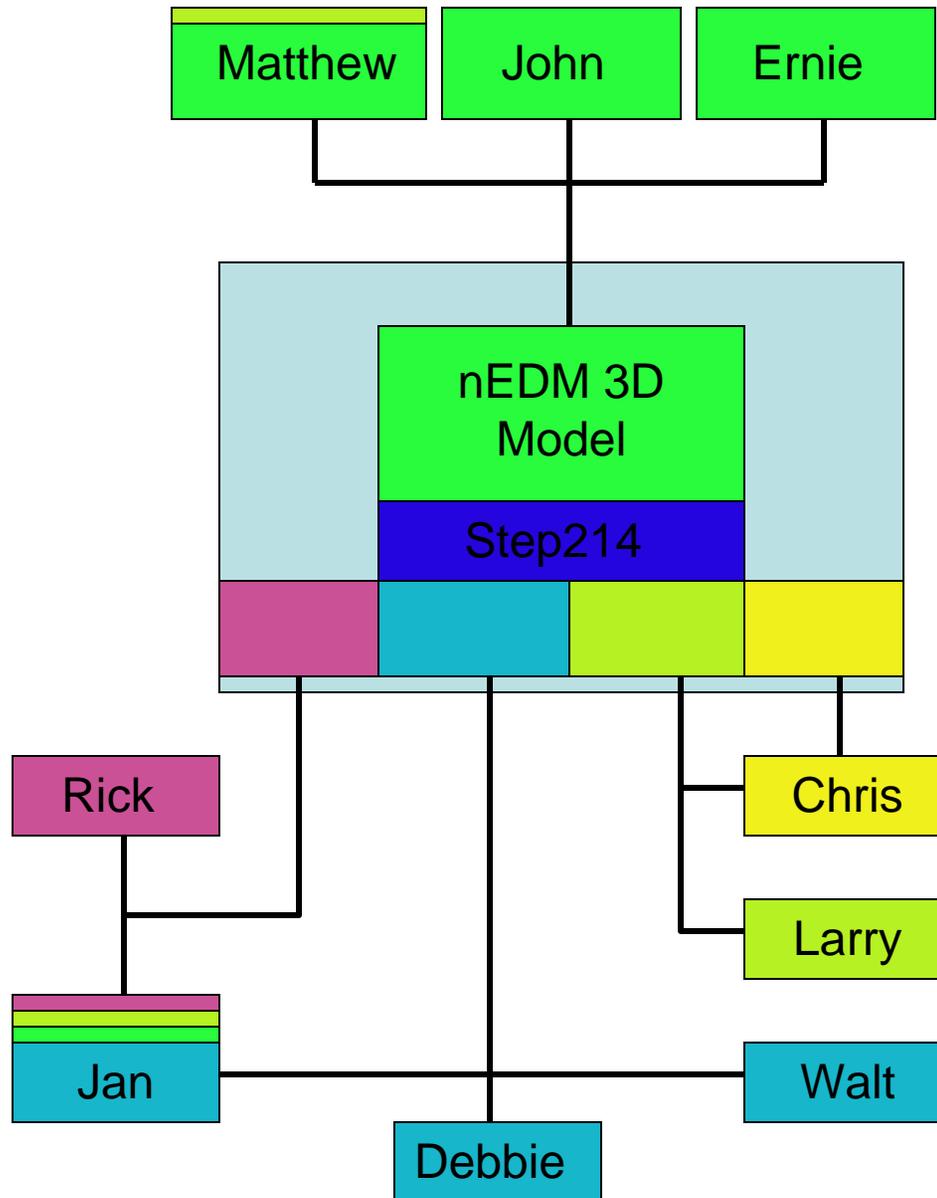
Jan Boissevain

nEDM Collaboration Meeting

6-07

nEDM 3D Model Generation

- AutoCad
- Inventor11, 2008
- Mech. Desktop
- ProEngineer
- SolidWorks 2007
- Unigraphics
- PDMWorks



Why not standardize on one CAD Tool?

- nEDM requires experienced design engineers – only one (of current team) available full time, others available at ~25% level
- Time to learn a new tool: ~2 months (full time or 8 months part time)
- SolidWorks: capable, fairly easy to learn, friendly with other CAD systems
- PDMWorks: versatile, low cost, Windows Explorer interface

nEDM Drawing Creation

- Drawings archived in PDF format
- SolidWorks drawings would be nice but we lack experienced people
- Chris Daurer – experienced draftsman/team-leader of group of AutoCad designers
- Some drawings will be done in ProE
- Some drawings will be done in Unigraphics

nEDM Engineering by Subsystem

	Hours	Comments
1.2 Beam-line Design	332	FY '08: Rick, Robert Huerto, Ernie, IU RF eng.
1.3 Cryostats & Refrigerators	3290	\$60K for study; Chris, Ernie, Jan, Jeff Eischen, Matthew, Stan Smeltzer
1.4 3He Services	3309	Chris, Debbie, Jan, John, Larry, Matthew
1.5 Magnets & Shielding	2705	Bob Carr, Chris, Jan, Jim Pendlay, Ray Cortez
1.6 Central Detector System	1720	Debbie, Jan, John
1.7 DAQ/ Slow Controls	60	Brian McAlister
1.8 Infrastructure	470	Debbie, Rick, Walt
1.10 Project Office	2210	Through Calendar '08: Chris, Jan