ToroidMeeting-June-26-06

Toroid Electronics Meeting Minutes

June 26, 2006

Analog Electronics Design

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Attendees:

John Dusatko	Mike Browne	Michael Cecere
Steve Smith	Hamid Shoaee	Sheng Peng

Agenda:

1. Analog Electronics

Presentation Materials:

Project Timeline, M. Cecere

Minutes:

- Toroid Manufacture Status
 - o Tim says ceramic, brazed toroids should be here next week for testing
 - o Toroid coil polarity not resolved yet, will pursue with ISA, with Steve's help
- Will our system be fast enough for IM01, 120Hz Laser Feedback?
 - o won't be implemented for a while, first operation at 1 30 Hz
- Since using only 4 channels of each 16 channel IP330, may as well drive more signals
 - o i.e. PS status (so IOC knows the toroid box is still alive)
 - o add another DAC/buffers
- Signal IOC when all 4 channels are ready for IOC ADC to convert
 - o this should optimize time performance of system
 - $^{\circ}\,$ should be trigger line on cable to IP330.
 - o drive directly from PIC (with buffer? or just use DAC channel since already buffered)
 - o Change IOC connector to SCSI to match other end. (straight-through, John?)
- Analog Circuit Design
 - Bring Signal Straight to Integrating Op-Amp, no buffer
 - Put +/-1 stage immediately after int. op-amp (introduces off-set error, estimate this)
 - o add buffer circuitry to schematics
- Calibration Circuit Design seems OK
- · Use Vern Smith for intra-rack cabling?
- Will Chuck Yee be able to do this job timely? seek other help?

Action Items:

- M. Cecere: Adjust circuit as described above
 M. Cecere: Need Test Plan
 M. Cecere: Add Mechnical Box design to timeline