BRAHMS NIM Paper

- Project Charge
- Current (and proposed) outline
- Draft Status
- Things to do before submission
- Deadlines
- Toward submission

Project Charge

- BRAHMS should publish a NIM paper
  - Show the world what we have done.
  - Easier to write physics papers
- NIM will have a volume dedicated to RHIC Instrumentation.
  - Overview article on each experiment
  - Individual articles on different experimental subsystems as deemed fit by experiment
  - Guest edited by BNL (T. Ludlam et. al.)
  - BRAHMS should participate in this!!!

Outline

- Introduction
- Experimental Layout overview
  - Forward spectrometer
  - MRS
  - Global detectors

Outline (Introduction as suggested by Flemming)

- Introduction (1 page)
  - BRAHMS experiment at RHIC
  - Collider experiment
  - Physics goals capabilities
  - Design based on experience from 866,Na44, ISR FS spectrometers
  - Some design criteria
  - momentum resolution
  - Pid needs.
- Experimental Layout overview
  - Forward spectrometer
  - MRS
  - Global detectors

Outline (continued)

- Detector Components (for each design, construction, and performance)
  - Spectrometer components
    - Magnet designs (RD,DB, JHLee)
    - Tracking TPC (PC, FJ)
    - Tracking DC (TK)
    - TOF systems (NBI, DB)
    - C1, RICH (RD)
  - Global detectors
    - ZDC (MM) (ref to NIM..)
    - Tile, Si (RD, SJS)
    - BB (YB)
  - Tracking & PID performance (global system)
  - PID plots results
  - tracking resoultion

Outline (continued)

- Triggering/DAQ (FV)
- Online distributed VME,fastbus, CAMAC
  - Daq processes (KO?? (FV))
  - Online monitoring (a few nice examples) (KH)
  - Slow control (HV in particular).
- Conclusions

Status of Draft

- Introduction: needs lots of work
- Experimental Layout: on track (my opinion!)
- Magnets: need to be continued
- TPC: Have extensive text, but needs some revision
- DC: Might be too general
- TOF: Needs to be continued; lot of xxx's and yyy's in place of parameters
- C1, RICH: needs to be continued
- ZDC: Need more technical details
- MULT: OK (two competing versions of tiles)
- BB: OK (English??)
- Performance: does not exist
- DAQ/Triggering/Slow control: does not exist

Things to do

- Need solid contributions from detector subsystems as indicated.
- Need text on performance
- Put other text around that
  - Abstract
  - Introduction
  - Experimental Layout
  - Conclusion
- Edit figures and tables for consistency
- Edit references for consistency
- Circulate to collaboration
- Submit to T. Ludlam

Deadlines

- Need “good” draft to T. Ludlam by 18-May
- That leaves ~3 weeks to accomplish tasks indicated in last slide.

Toward submission

- Currently I have a list of people (they know who they are)
  - These are people that were identified to make "well defined" contributions to BRAHMS sub-systems.
  - I send e-mail messages periodically reminding to make writeups on their subsystem
  - Everyone busy with other things; notably analysis for papers.
  - response is significantly less than hoped for.

Toward submission (continued)

- Should we form a writing committee?
  - Who should be on it?
- Timeline
  - Solid contributions on subsystems and performance (1 week)
  - Edit the rest (1/2 week)
  - Circulate and get first round of comments (1 week)
  - Implement first round of comments
  - now near 18-May!!!
  - Practical
  - What to do if not???