Detailed summary of proposal process / ATHENA News

ATHENA Collaboration meeting
February 3rd , 2022

Silvia Dalla Torre

ATHENA

Today Agenda

11:00 → 11:05 **Welcome**
Speaker: Bernd Surrow (Temple University)

11:05 → 11:25 **Detailed summary of proposal process / ATHENA News**
Speaker: Silvia Dalla Torre (INFN, Trieste)

11:25 → 11:35 **Perspective of R&D program**
Speaker: E. C. Aschenauer (BNL)

11:35 → 11:45 **Highlights of homework answers: ATHENA Management**
Speaker: Silvia Dalla Torre (INFN, Trieste)

11:45 → 11:55 **Highlights of homework answers: Costing**
Speaker: Bernd Surrow (Temple University)

11:55 → 12:10 **Highlights of homework answers: Physics**
Speaker: Zhoudunming Tu (BNL)

12:10 → 12:25 **Highlights of homework answers: Detectors**
Speaker: Maria Zurek (Argonne National Laboratory)

12:25 → 12:35 **Highlights of homework answers: Electronics**
Speaker: Jeff Landgraf (Brookhaven National Laboratory)

12:35 → 12:50 **Report about software "lessons learned"**
Speaker: Sylvester Joosten (Argonne National Laboratory)

Miscellanea of news/information relevant for ATHENA life

An item of general interest

Highlights of homework answers to DPAP and DAC, grouped by argument

Software lessons learned within ATHENA

Proposal-related activity after the submission

- Reminder:
  - **Proposal submitted** on 12/1/2021
  - *You received an e-mail with the address and password for your access to the proposal*
- **Following:**
  - Preparation of the **reports** for the open sessions at the **December DPAP meeting** (slides at https://indico.bnl.gov/event/13614/)
  - Answering **DPAP and DAC questions**
  - Provide explanations about the questions at the **ATHENA-dedicated executive session** at the **January DPAP meeting**

More about DPAP meetings

- December 13-15 (https://indico.bnl.gov/event/13614/)
  - Open presentations, 3 for ATHENA:
    - Silvia Dalla Torre
      - Overview of key points, addressing the science requirements in the Call for Proposals, the conceptual realization of the detector given the technology choices, and expected performance via simulation studies.
    - Thomas Ullrich
      - Describe the R&D needs and risks, and potential upgrade paths.
    - Bernd Surrow
      - Describe the collaboration and its structure, the proposed schedule and cost, including potential sources of non-project funding and assumptions.
  - *Contribution came from ATHENA members during the discussion phases*
- January 19-21
  - Executive Session with ATHENA on 1/19:
  - Silvia, Bernd
  - a small group of experts invited to attend
    - Directly involved in preparing the answers
  - "online" on SLACK all EB and WG conveners
- *All this contributions fundamental for appropriate professional answering to the DPAP questions posed during the session*

Valerio Calvelli, CEA-Saclay
Alexandre Camsonne, JLab
Alex Jentsch, BNL
Laura Gonella, Birmingham University
Leo Greiner, LBL
Thomas K Hemmick, Stonybrook University
Sylvester Joosten, ANL
Alexander Kiselev, BNL
Jeff Landgraf, BNL
Paul Newman, Birmingham University
Brian Page, BNL
Krzysztof Piotrzkowski,
Matt Posik, Temple University
Paul Reimer, ANL
Ernst Sichtermann, LBL
Oleg Tsai, BNL
Zhoudunming Tu, BNL
Thomas Ullrich, BNL
Alexander Vasilyev, BNL
Anselm Vossen, Duke University
Zhenyu Ye, University of Illinois Chicago
Maria Zurek, ANL

Homework, a complete list

- **Timelines**
  - DPAP
    - Questions received: 12/17/2021
    - dead-line for answers: 1/16, 2022 **matched**
  - Further DPAP question from January DPAP meeting
    - Questions received: 1/21/2022
    - dead-line for answers: 1/30/2022 **matched**
  - DAC
    - Questions received: 12/22/2021
    - dead-line for answers: 1/9, 2022 **matched**

- Reminder: also answers to oral questions during December 2021 DPAP meeting

- All submitted material :
  - *collected in a single site with password; site and password communicated to you by e-mail*

The future of our Proposal (as scientific document)

- **3 publication paths**, which will go-on in parallel

1. The **project** will make the proposals public after March 1st
   - In the form they have been submitted after stripping out the costing information (in our case removing Chapter 5.2 and Appendix C-2)
   - We have explicitly requested that all the rest is kept
2. **Printing** a limited (Athena has not yet a budget !) number of copies
   - WG conveners' help requested for final refurbishing
   - Printing possible due to the contributions of
     - CFNS (thanks to Abhay Despande)
     - Saclay (thanks to Franck Sabatie)
3. Extracting the scientific content (detector and performance) for **publication in an instrumentation journal**

Next Steps 1/2

- Conclusion of the Call for Proposal Process
  - Promised by **March 1st**
  - There will be a **close-out** (details not known)
  - *ATHENA attitude:*
    - *We are proud of the great work ATHENA has provided;*
    - *No project will be rejected as a whole;*
    - *Whatever the outcome format is, the great work ATHENA provided will be a key element for the project;*
    - *It is not unlikely that, in the following, we will work within a larger team; no problem: we already did during the YR year*

Next Steps 1/2

- About ATHENA life

  - Conscious of the quality of our scientific environment and outcome
    - Do not loose momentum
    - Continue the ATHENA activity
    - Continue/restart the WG meetings
    - Restart the series of the bi-weekly collaboration meetings
      - The first today

Enriching the EB composition

- ~ 3 months ago, we asked for nomination of “early career” colleagues for the early career member in the EB
- Process not completed (proposal finalization overcoming), time to complete
  - ➢ Reminder, “early career” definition according to ATHENA Charter:

    within five career years of obtaining his/her Ph.D. (not counting career interruptions).

  - ➢ Some nomination received
    - ⊙ Excellent colleagues, several not satisfying the above definition
    - ⊙ Please send us (Bernd, Ernst, Silvia) more nominations by next Monday (February 7th)