

# Status Update ATHENA Costing Collaboration/Costing Chapter

Bernd Surrow



On behalf of the ATHENA Costing Team

(Olga Evdokimov, Yulia Furletova, Bernd Surrow, James Symons, and Zhangbu Xu)





#### Outline

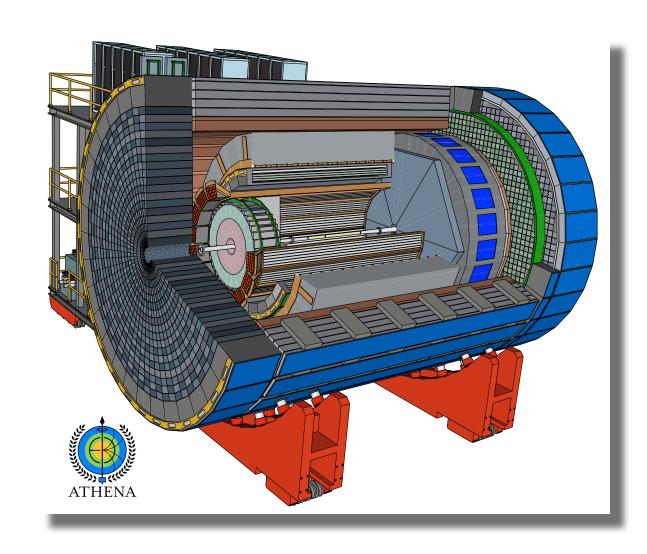
□ Chapter 4: Overview

(Silvia & Bernd)

□ Chapter 5: Overview

(Costing Team)

□ Summary





- Link to Chapter 4: Collaboration
  - Planned for 6/20 pages

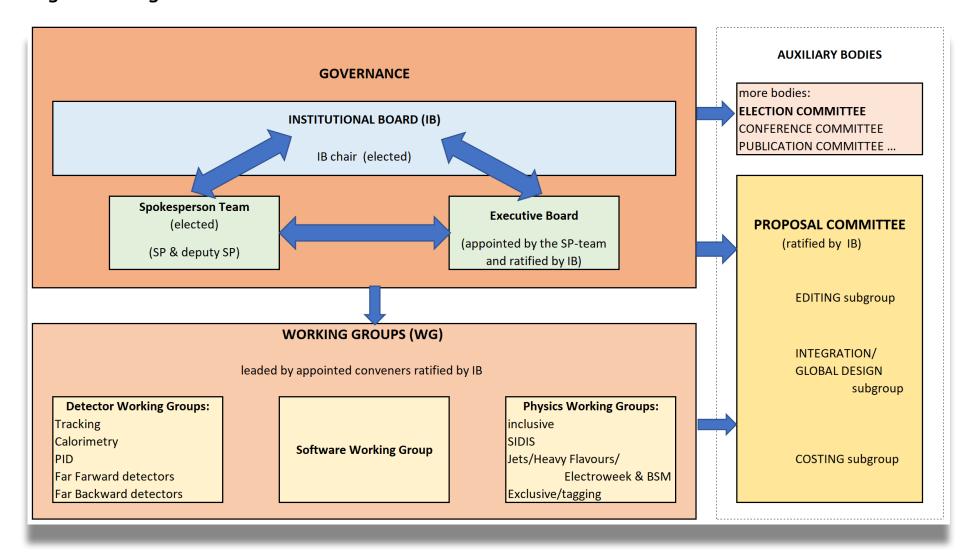
Current length: 6 pages / 5 figures - Text and figures are in final draft form!

Posted Proposal draft:

https://www.dropbox.com/s/ey1cy2py9yl61b2/ATHENA Proposal 110821.pdf?dl=0



Figure 1: Organizational structure of the ATHENA collaboration





□ Figure 2: Comprehensive overview of all ATHENA collaboration committees and working groups

				Silvia Dalla Torre (INFN Trieste, Italy)	Barbara Jacak (Berkley University, USA)	
	hofor: !	alaman tir	Coordination	Abhay Deshpande (Stony Brook University,USA)	Alexander Kiselev (BNL, USA)	
	before implementing the Charter		Committee	Olga Evdokimov (Illinois Chicago University, USA)	Franck Sabatie (CEA, France)	
				Yulia Furletova (Jefferson Lab, USA)	Bernd Surrow (Temple University, USA)	
			preliminary Institutional Board	a representative from each Institution		
MANAGEMENT	Charter imlementation		Institutional Board	members from each Institution according to the g	roup size as specified in the Charter	
				chair: Ernst Sichtermann (LBNL, USA)		elected
			Spokesperson (SP) team	SP : Silvia Dalla Torre (INFN Trieste, Italy)	<b>Deputy SP</b> : Bernd Surrow (Temple University, USA)	elected
			Executive Board	chair: Silvia Dalla Torre (INFN Trieste, Italy) ex officio: Ernst Sichtermann (LBNL, USA) ex officio: Bernd Surrow (Temple University, Abhay Deshpande (Stony Brook University, USA)	Yulia Furletova (Jefferson Lab, USA) Barbara Jacak (Berkley University, USA) Sylvester Joosten (ANL, USA) Franck Sabatie (CEA, France)	ratified by IE
			-	Olga Evdokimov (Illinois Chicago University, USA)	Thomas Ullrich (BNL, USA)	+
COLLABORATION SUPPORT			Election Committee	Pietro Antonioli (INFN Bologna, Italy) John Arrington (LBNL, USA) Nicole d'Hose (CEA, France)	Yulia Furletova (Jefferson Lab, USA) Sylvester Joosten (ANL, USA) Brian Page (BNL, USA)	ratified by II
AD HOC BODIES			Charter Committee	Ken Barish (California Riverside University, USA) Nicole d'Hose(CEA, France) Zein-Eddine Meziani(ANL, USA) Olga Evdokimov (Illinois Chicago University, USA) David Gaskell (Jefferson Lab, USA) Thomas Hemmick (Stony Brook University,USA) Bedanga Mohanty (NISER, India)	Marta Ruspa (INFN Torino, Italy) Murad Sarsour(Georgia State University, USA) Ernst Sichtermann (LBNL, USA)	ratified by II
SCIENTIFIC BODIES	Working Groups (WG)		Software WG	Whitney Armstrong (ANL, USA)	Sylvester Joosten (ANL, USA)	ratified by IB
				Andrea Bressan (INFN Trieste, Italy)	Dmitry Romanov (Jefferson Lab, USA)	
				Wouter Deconinck (Manitoba University, Canada)		
			Tracking WG	Francesco Bossu (CEA, France)	Laura Gonella (Birmingham University, UK)	
			Tracking WG	Domenico Elia (INFN Bologna , Italy)	Matt Posik (Temple University, USA)	
		Detector WGs	Calorimetry WG	Vladimir Berdnikov (Catholic University of Paul Reimer (ANL, USA)	Oleg Tsai (BNL, USA)	
			PID WG	Frank Guerts (Rice University. USA) Thomas Hemmick (Stony Brook University, USA)	Roberto Preghenella (INFN Bologna, ITALY)	
			Far Backward WG	John Arrington (LBLN, USA)	Alexander Jentsch (BNL, USA)	
			Far Farward WG	Jaroslaw Adam (BNIL LISA)	Krzyzstof Piotrzkowski (Louvain Catholic	
		Physics WGs	Inclusive WG	Jaroslaw Adam (BNL, USA) Paul Newman (Birmingham University, UK) Barak Schookler (Stony Brook University, USA)	University, Belgium) Quighua Xu (BNL, USA)	
			SIDIS WG	Marco Radici (INFN Pavia, Italy)	Anselm Vossen (Duke University, USA)	
			Jets/Heavy Flavours/ Electroweek &BSM WG	Miguel Arratia (UC Riverside, USA) Brian Page (BNL, USA)	Stephen Sekula (SMU , USA) Ernst Sichtermann – EPSichtermann@lbl.gov	
			Exclusive/Tagging	Salvatore Fazio (INFN Cosenza, Italy) Spencer Kein (BLBN, USA)	Daria Sokhan (Glasgow, UK and CEA, France)	
	Proposal Committee		Editing Subgroup	Abhay Deshpande (Stony Brook University,USA) Barbara Jacak (Berkley University, USA)	Peter Jones (Birmimgham University, UK) Zein-Eddine Meziani (ANL, USA)	ratified by IE
			Integration/Global Design Subgroup	Silvia Dalla Torre (INFN Trieste, Italy) Bedangadas Mohanty (NISER, India) Alexander kiselev (ANL, USA)	Franck Sabatie (CEA, France) Thomas Ullrich (BNL, USA)	
			Costing Subgroup	Olga Evdokimov (Illinois Chicago University, USA) Yulia Furletova (Jefferson Lab, USA)	Bernd Surrow (Temple University, USA) Zhangbu Xu (BNL, USA)	



Figure 3: Detailed overview of the number of ATHENA inst. by country and world region

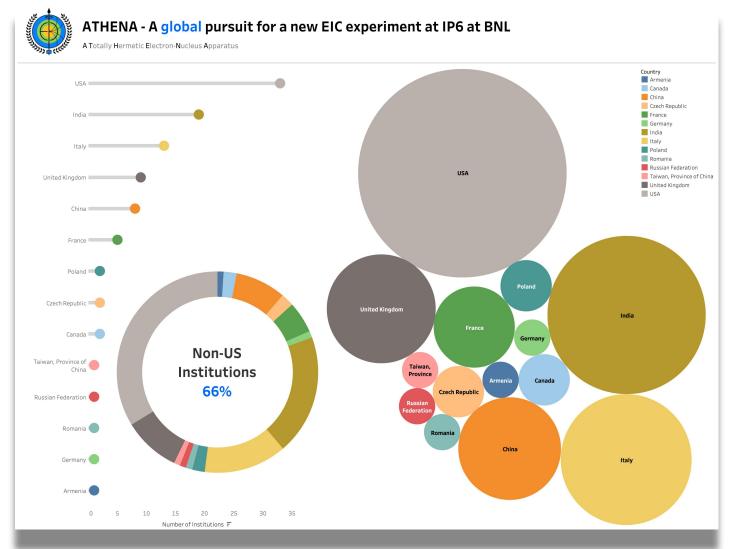
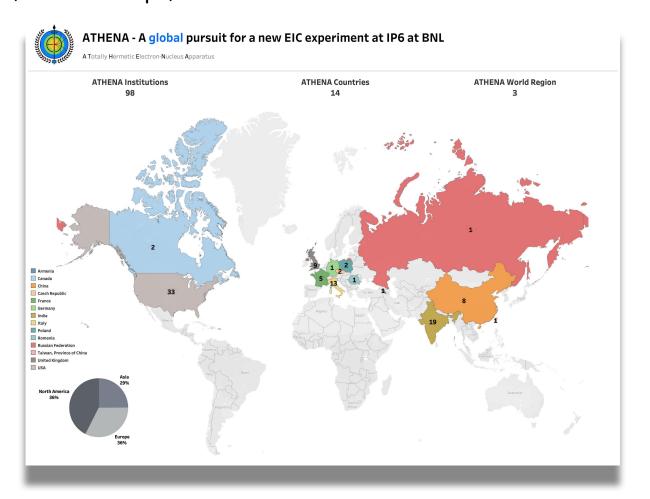
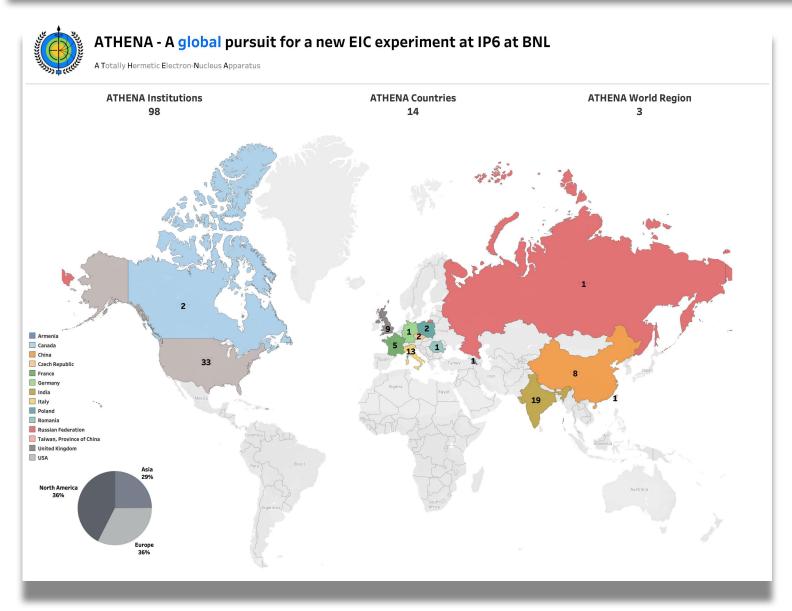




Figure 4: World map showing the coverage of EIC institutions by country with 98 institutions, 14 countries, and 3 world regions, with a fraction of institutions by world region of 36% in North America, 36% in Europe, and 29% in Asia

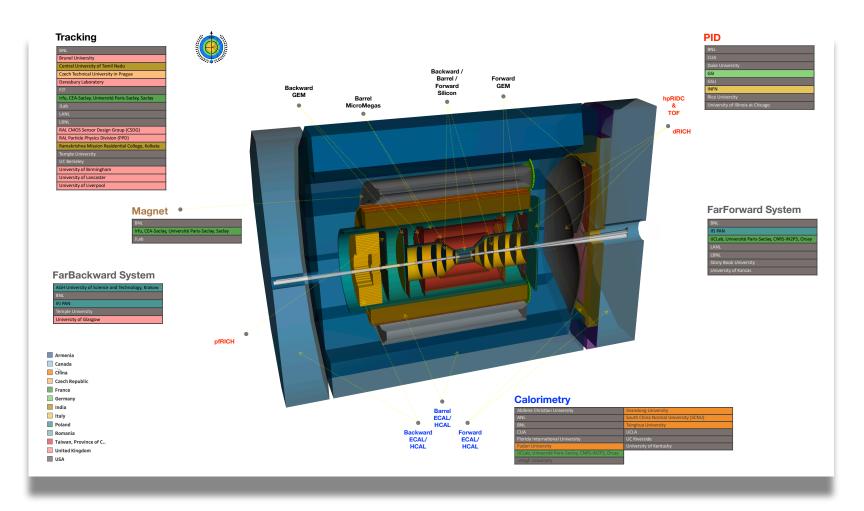




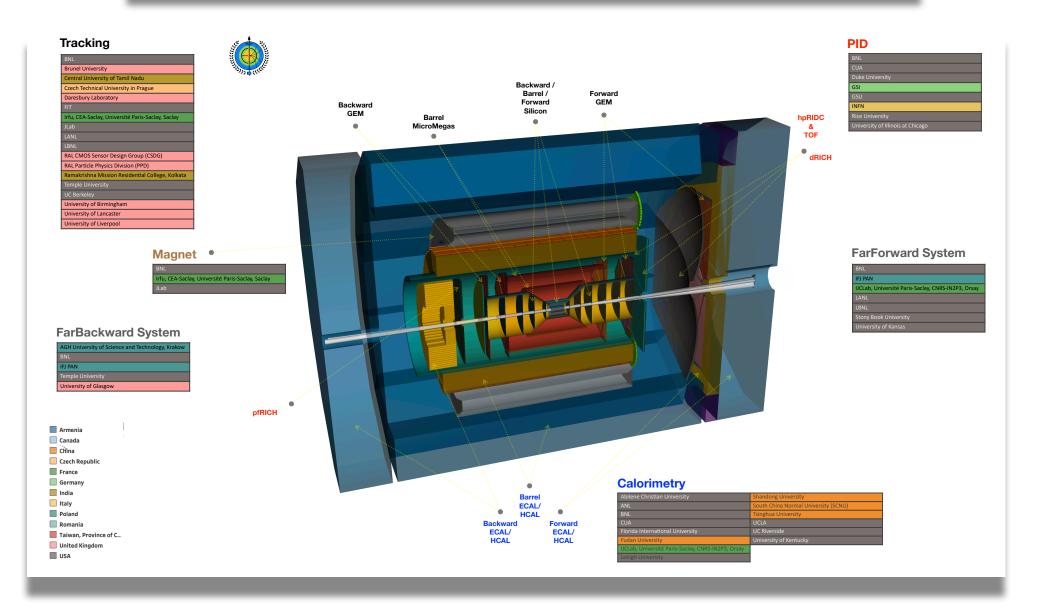




□ Figure 5: EIC GEANT4 detector layout, highlighting ATHENA sub-systems mapped to institutional interests









#### Chapter 5: Costing

- Overview of current proposal draft:
  - Text is in final draft form
  - Number of pages 25/14 —> Moving various figures to appendix / WIKI documentation
  - All basic figures / tables available!
  - Updates:
    - □ Updates from a few sub-systems not included yet —> Final for next release!
    - R&D cost items not included yet —> Final for next release!
    - ☐ Escalation only shown in posted proposal draft in draft form → Final for next release!



#### Summary and Next Steps

- Collaboration chapter is in final draft form: Text + figures —> Please read and submit comments through google form!
- Costing: Actual costing effort has been finalized
- Costing chapter: Text is in final draft form
- Updates for next release:
  - Some sub-system updates
  - O R&D
  - Moving several figures to appendix / WIKI page
- Please read carefully and submit comments!