Software Working Group



Andrea Bressan (Trieste), Markus Diefenthaler (JLab), Torre Wenaus (BNL)







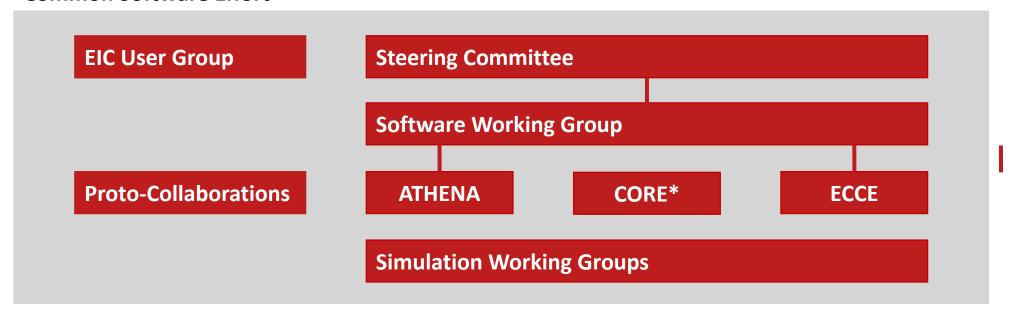
Working Together

After a presentation on "Breakthroughs in Detector Technology", Ian Shipsey (Oxford) was asked about the role of software.

Anecdote

"Software is the soul of the detector," Ian Shipsey replied in a poetic way and emphasized the importance of great software for great science. He added that we need to work together, on a global scale and with other fields, to achieve this goal.

Common Software Effort



^{*} CORE adapts existing software for their needs and has a far smaller software effort than other proto-collaborations.

liaisons

Software Session



11:00

Software Session Overview	Andrea Bressan et a
	11:30 - 11:3
ATHENA Software Overview	Sylvester Jooste
	11:35 - 11:5
ECCE Software Overview	Joe Osbo
	11:50 - 12:0
Status of Validation	EIC-Ind
	12:05 - 12:2
Project eAST Overview	Wouter Deconing
	12:20 - 12:3
Software Working Group Overview	Markus Diefenthal
	12:35 - 12:4
Discussion	
	12:45 - 13:0

Essential Experience

- **ATHENA, CORE, ECCE** Build upon common software and simulation effort of the recent years, e.g., YR.
- **ATHENA** Explore modern software tools (as specified in YR).
- CORE, ECCE Take advantage of mature software tools.
- **ATHENA, ECCE** Detailed full simulations of detector concepts with more than 435M events produced.

Lessons learned from ATHENA, CORE, and ECCE important for future direction(s) of EIC Software.

Common Software Projects

- Software EoI (29 institutions), including:
 - Validation of simulations tools
 - Next-generation eA Simulation Toolkit (eAST)

Interplay of Science and Software & Computing

