



ATHENA Collaboration

Questions received



- About Tracking, TR1-4
- About Calorimetry, CA1-2
- About PID, PID1
- About Electronics/DAQ, EL1-6
- About Auxiliary Detectors, AX1
- About Magnet, MA1
- About Costs, CR1
- ➤ Questions PID1 and AX1, requiring comparative cost considerations with respect to the YR, have been cancelled because no cost estimate are included in the YR (E. Kinney's email on 12/24,2021)
- The Athena answers to all the other questions are included in the following slides



MAGNET

MA1



Q: Please explain why the magnet costs are not escalated from FY21\$?

- A new 3T magnet is part of the long lead items of the EIC project, therefore it is on a fast-track procurement and design schedule to be completed by CD-2/3A in April 2023.
- The timescale between the costing in 2021 Dollars and the actual execution is at the level of 1-2 years. It was therefore decided not to include this correction to cover the escalation of the magnet costing.
- Magnet costing table: Appendix C of proposal Table C.16
- What is provided below is the level of escalation under those conditions:
 - Growth rate: 3.5%
 - Time scale: 1-2 years
 - Magnet costing in FY21: \$28.7M
 - Escalation for 1 year: Escalation factor 1.035=(1+0.035) / Escalated amount: \$29.7M
 - Escalation for 2 years: Escalation factor 1.071=(1+0.035)² / Escalated amount: \$30.7M