

Discussion with S&C management

Frédéric Derue, LPNHE Paris

ATLAS France CAF-user meeting

9th december 2021

We are pleased to welcome

Oxana Smirnova (chair of International Computing Board)

Alessandro Di Girolamo and Zachary Marshall (S&C conveners)

● ATLAS

- International Computing Board (ICB): F. Derue (IN2P3), A. Formica (CEA)
- members of CAF in sites with T2 are also scientist in charge of their local T2
- appointments as appearing in glance

ADAM Coordinator // Activities and Detector Projects // Software and Computing // ATLAS Database and Metadata (ADAM)		ANDREA, Formica	Saclay CEA (France)	2021-01-01	2022-03-31	active
Conditions Evolution Coordinator // Activities and Detector Projects // Software and Computing // ATLAS Database and Metadata (ADAM)		ANDREA, Formica	Saclay CEA (France)	2021-01-01	2022-03-31	active
Convenor of subgroup: Software // Activities and Detector Projects // Physics // Combined Performance Groups // Flavour tagging CP group	0	ARNAUD, Duperrin	Marseille CPPM (France)	2021-02-01	2023-03-31	active
Convenor of subgroup: Reconstruction and Software // Activities and Detector Projects // Physics // Combined Performance Groups // Egamma CP group	0	JEAN-BAPTISTE, De Vivie De Regie	Grenoble LPSC (France)	2021-10-01	2023-09-30	active
Physics Metadata Coordinator // Activities and Detector Projects // Software and Computing // ATLAS Database and Metadata (ADAM)		PIERRE ANTOINE, Delsart	Grenoble LPSC (France)	2021-05-01	2022-09-30	active

- DOMA access: co-convenor S. Jézéquel

● Other

- WLCG/LCG-FR: member of CoDir / scientific director L. Dufлот

Information taken from OTP report

→ either Activity= «Computing & Software », either appears the key-word « software »

System	Activity	Task	Institution	Description	Committed [FTE]	Allocated [FTE]	Task requirement [FTE]
Pixel	Computing and Software	Software Development/Maintenance and Physics Performance	CPPM	Performance studies and software development	0.80	0.10	2.98
LAr	Data Preparation	Reconstruction,EDM,Validation	CPPM	Software validation (J. Toth)	0.20	0.07	0.17
DAQ/HLT	Detector Operation	DataFlow	CPPM	Node-level dataflow management software maintenance	0.15	0.00	0.10
General Tasks	Computing and Software	TAG/EI and Conditions/Metadata Database Development	IJCLab	Develop and operate the EventIndex (Hadoop)	1.00	0.55	3.22
General Tasks	Computing and Software	TAG/EI and Conditions/Metadata Database Development	IRFU	Develop and maintain the conditions database infrastructure	0.65	0.20	1.49
LAr	Detector Operation	LAr online software	LAPP	LAr online SW maintenance & development, TDAQ version migration	1.00	1.19	5.07
LAr	Detector Operation	LAr online software	LAPP	LAr online SW maintenance & development, TDAQ version migration	1.00	1.19	5.07
LAr	Detector Operation	Home stations	LAPP	online software test station	0.10	0.00	0.00
Pixel	Computing and Software	Software Development/Maintenance and Physics Performance	LPNHE	Radiation Damage Group Coordinator and general performance studies	0.50	0	0.89
Pixel	Computing and Software	Software Development/Maintenance and Physics Performance	LPNHE	Offline software, rad damage, performance studies	0.25	0.02	2.98
General Tasks	Computing and Software	Reconstruction	LPSC	JET-Athena-Reconstruction	0.20	0.20	1.74
General Tasks	Data Preparation	Dataset-level metadata catalogs and infrastructure (AMI)	LPSC	Support and developemnt for AMI	2.70	0	0

Some of these commitments (e.g part of AMI) are also in-kind contributions

	Software					ADAM	Computing				
	Core	Upgrade	Data/ Detector	Reco/ Ana	Total [S&C+AS]	Total	C2	C3	C4	Other	Total
APC*			0.08	0.10	0.18 [0.18]						
CC- IN2P3									3.30		3.30
CPPM		2.34	3.16	0.54	6.04 [2.00]			0.05	0.65		0.70
IJCLab	0.20			0.28	0.58 [0.58]	1.12			0.30	0.40	0.70
IRFU						0.60		0.05	0.60		0.65
LAPP			2.80	0.42	3.22 [0.42]		0.06	0.10	1.10		1.26
LPC			0.15	0.40	0.55 [0]				0.75		0.75
LPNHE			0.60	0.68	1.28 [1.04]		0.13	0.45	0.85		1.43
LPSC				0.48	0.48 [0.40]	2.02			0.90		0.95
L2IT		3.00			3.00 [0]						
Total	0.20	5.34	6.79	2.90	15.33 [4.62]	3.74	0.19	0.65	8.45	0.40	9.74

● Computing (9.7 FTE)

- 8.5 FTE for FR-T1/2 (Class 4)
 - was 9.4 in 2020, 10 in 2019
- 0.65 FTE for Class 3
 - 0.55 for FR-cloud support/management
 - was 0.75 in 2020, 1.35 in 2019
 - 0.10 for other Class 3
 - was 0.4 in 2020, 0.4 in 2019
- 0.19 FTE for shifts (Class 2)
 - was 0.5 in 2020

⇒ computing reduced by ~1.3 FTE wrt 2020 mostly due to departure of one syst admin at IRFU (Class 4) but reduction also in Class 3 (-1 FTE since 2019, departures of Sabine, Luc, in part Stéphane) and also Class 2 (-0.3 FTE)

⇒ ADAM activities are stable

⇒ software activities are increased by >2 FTE (mostly on Upgrade)

- most of software activities (~10 FTE over 15) not in S&C+AS
- ~3 FTE not in OTPs (L2IT, LPC)
- ML and ACTS-like activities counted for L2IT (~3 FTE) but not for some others (IJCLab, LAPP) for ~2-3 more FTEs ...

● Software (15.3 FTE)

- 4.6 FTE are labelled as S&C or Analysis Support for ATLAS OTPs
- 0.2 FTE SW core, 5.3 FTE Upgrade (Run 4), 6.8 FTE data/detector, 2.9 FTE reco/analysis

● ADAM (3.7 FTE)

- WG management 0.24 FTE
- AMI, EventIndex 3.5 FTE

These numbers include (in general) contributions to other projects on computing to LCG-FR, DOMA-FR, ESCAPE 2