



Operations Tasks Status

— Yanlin Liu (刘彦麟) —
Shandong University

ATLAS-China Faculty Meeting, Zhengzhou, April 25th, 2026



Introduction on OTP

- Class 1: central and detector shifts in ATLAS Control Room (ACR) at Point-1
- Class 2: other shifts including shifts in satellite control rooms, computing shifts, remote shifts, on-call shifts
- Class 3: operation tasks involving experts on systems, data preparation, computing, software
- Class 4: operation of the Tier-1 and Tier-2 computing centers (ATLAS-China groups don't have any related OTP in the past 3 years)
- Upgrade: detector upgrade related activities

Class 1&2 in units of shifts, class 3 and upgrade in units of FTE

*One shift unit corresponds to an 8-hour ACR shift or an equivalent workload (perhaps distributed over more than 8 hours, for instance on-call)



Total OTP (Unit: FTE)

Institutes listed in alphabetical order

Institute	Effective OT	2023	2024	2025
Beijing IHEP	29	18.88	20.56	20.69
Beijing Tsinghua	3.25	1.43	2.2	1.93
China NJU-SYSU cluster	21	7.57	7.67	9.84
China SDU-ZZU-NKU cluster	10.5	4.25	4.52	8.01
China SJTU-TDLI cluster	19.5	4.23	2.54	4.17
Hefei	36	14.1	16.02	16.53

Effective OT: basically equivalent to number of active authors (PhD students counted with a weight of 0.75)

Class 1&2 shifts converted into FTE and counted in this table



Rough Estimation on Alloc./Req. for 2025

	OT	Alloc	Required	Alloc/Req	Alloc	Required	Alloc/Req	
		Class 1&2			Class 3			Upgrade
Beijing IHEP	29	48.01	354	0.14	3.12	6.52	0.48	17.44
Beijing Tsinghua	3.25	3.1	40	0.08	0.0	1.43	0	1.92
China NJU-SYSU cluster	21	292.98	256	1.14	4.8	6.31	0.76	4.24
China SDU-ZZU-NKU cluster	10.5	16.8	128	0.13	2.45	3.48	0.70	5.53
China SJTU-TDLI cluster	19.5	195.44	238	0.82	1.51	6.47	0.23	2.12
Hefei	36	354.37	440	0.81	4.71	11.95	0.39	10.87



Class 1 (Unit: Shifts)

Institute	Effective OT	2023	2024	2025
Beijing IHEP	29	25.2	82.2	1.2
Beijing Tsinghua	3.25	0.0	0.0	0.0
China NJU-SYSU cluster	21	52.2	46.8	38.4
China SDU-ZZU-NKU cluster	10.5	40.2	46.2	16.8
China SJTU-TDLI cluster	19.5	11.4	0.0	0.6
Hefei	36	96.9	292.2	166.92



Class 2 (Unit: Shifts)

Institute	Effective OT	2023	2024	2025
Beijing IHEP	29	0.75	100.8	46.81
Beijing Tsinghua	3.25	0.0	10.06	3.1
China NJU-SYSU cluster	21	98.67	348.55	254.58
China SDU-ZZU-NKU cluster	10.5	40.0	3.25	0.0
China SJTU-TDLI cluster	19.5	25.71	77.58	194.84
Hefei	36	117.83	146.8	187.45



Class 3 (Unit: FTE)

Institute	Effective OT	2023	2024	2025
Beijing IHEP	29	2.13	2.85	3.12
Beijing Tsinghua	3.25	0.14	0.07	0.00
China NJU-SYSU cluster	21	2.97	2.19	4.8
China SDU-ZZU-NKU cluster	10.5	1.02	2.09	2.45
China SJTU-TDLI cluster	19.5	3.02	1.56	1.51
Hefei	36	3.77	6.05	4.71



Upgrade (Unit: FTE)

Institute	Effective OT	2023	2024	2025
Beijing IHEP	29	16.7	17.23	17.44
Beijing Tsinghua	3.25	1.29	2.11	1.92
China NJU-SYSU cluster	21	4.19	4.39	4.24
China SDU-ZZU-NKU cluster	10.5	2.99	2.31	5.53
China SJTU-TDLI cluster	19.5	1.09	0.77	2.12
Hefei	36	9.71	8.78	10.87



Class 1&2

- According to some students, it's often difficult to book the control room (class 1) shifts
- Class 2 shifts normally are available, e.g. data quality, ADCoS (ATLAS Distributed Computing Operations Shifts), etc, which can be done remotely
- OTP scores are counted for SCAB ranking (e.g. important for students to get a conference talk on behalf of the collaboration)



Class 3

- CP/PMG groups generally need more person power and CP contributions are crucial inputs when a physics analysis comes to EB request stage
- Therefore, CP work is not only rewarding in terms of OTP, but also appreciated by the physics analysis groups
- By doing CP work, normally one can get an additional SCAB nomination from the relevant project leader (helpful to boost the ranking)
- Qualification task will be counted as 0.24 FTE once completed



Reference Links

- <https://otp-atlas.web.cern.ch/shift-classes/index.php>
- https://otp-atlas.web.cern.ch/shift-classes/Shifts_per_institution_2025.pdf

Thank you!