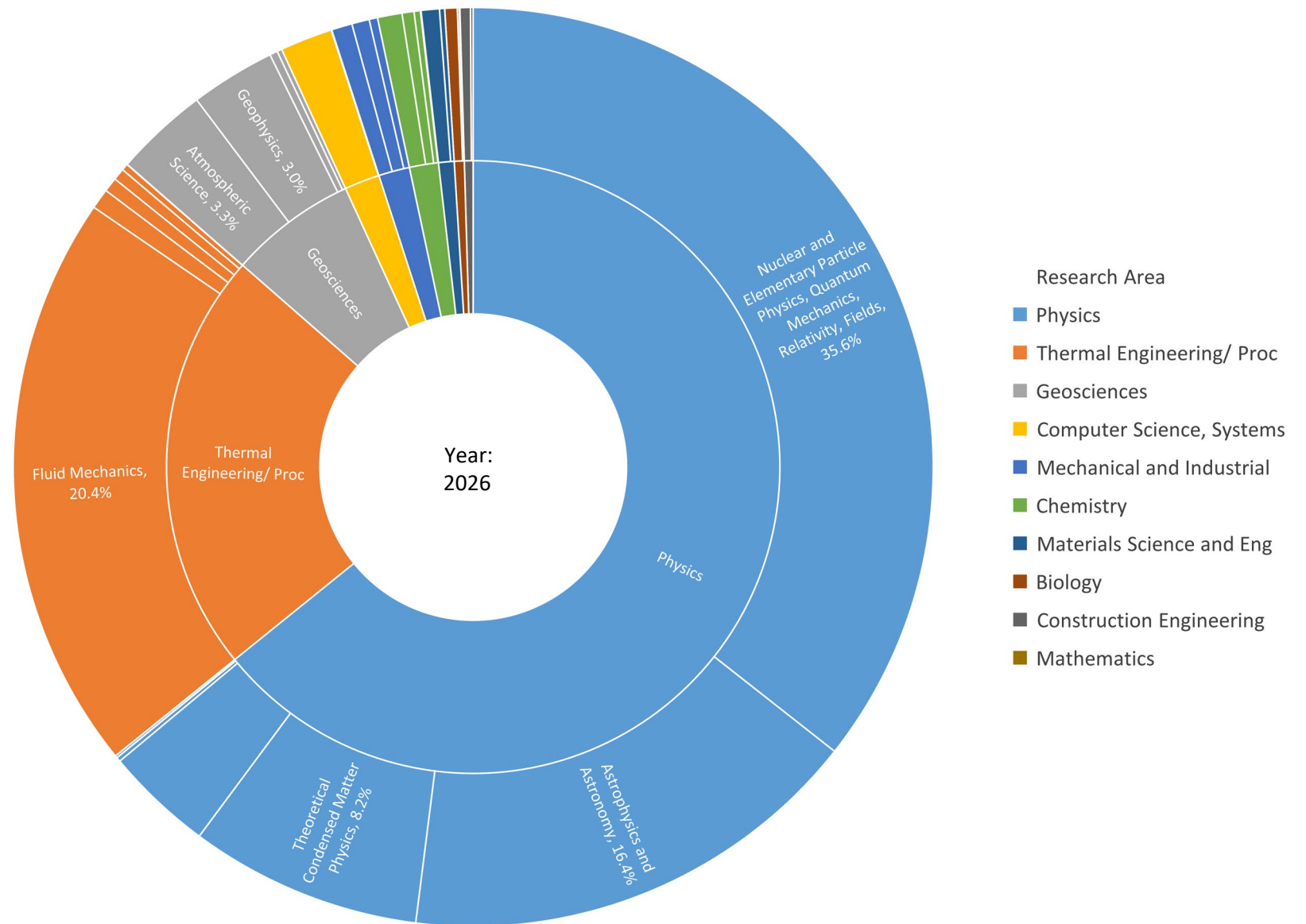


SuperMUC-NG
Usage Report



01.09.2026

Usage by Month

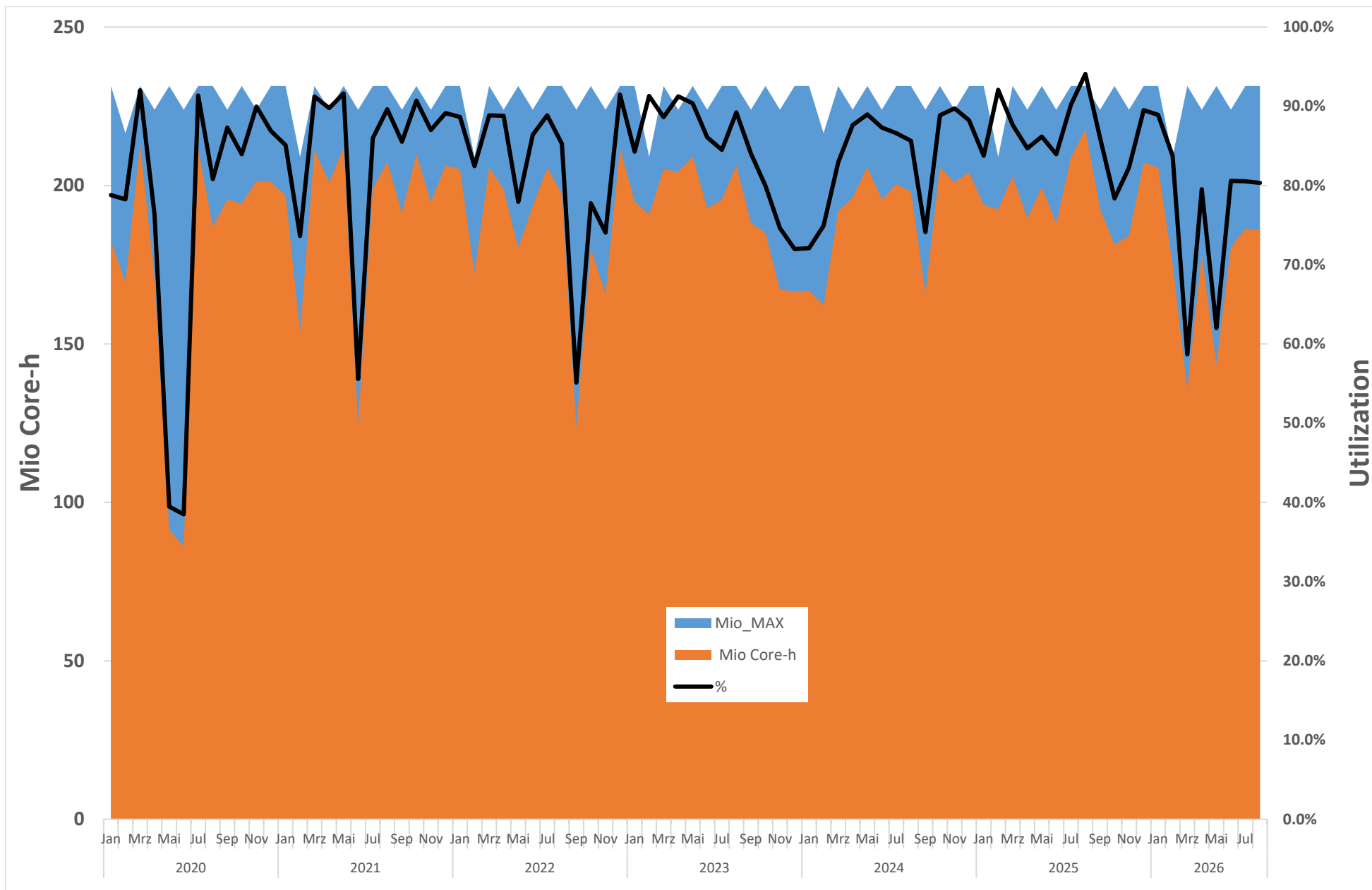
SuperMUC-NG Phase1

Date	Mio_MAX	Mio Core-h	%	Jobs
2026	1814.0	1390.9	76.8%	430680
Jan	231.4	205.7	88.9%	57335
Feb	209.0	175.0	83.7%	33945
Mrz	231.4	135.8	58.7%	44103
Apr	223.9	178.1	79.5%	51057
Mai	231.4	143.5	62.0%	60821
Jun	223.9	180.5	80.6%	66064
Jul	231.4	186.3	80.5%	53125
Aug	231.4	185.9	80.3%	64230
2025	2724.7	2358.2	86.6%	1028443
Jan	231.4	193.8	83.8%	56156
Feb	209.0	192.5	92.1%	79831
Mrz	231.4	202.9	87.7%	133101
Apr	223.9	189.7	84.7%	93619
Mai	231.4	199.5	86.2%	51369
Jun	223.9	188.0	84.0%	57488
Jul	231.4	208.7	90.2%	139622
Aug	231.4	217.7	94.1%	89179
Sep	223.9	192.6	86.0%	50711
Okt	231.4	181.3	78.4%	100713
Nov	223.9	184.3	82.3%	109334
Dez	231.4	207.1	89.5%	67320
2024	2732.2	2294.0	83.9%	916935
Jan	231.4	166.8	72.1%	36612
Feb	216.5	162.2	74.9%	34569
Mrz	231.4	191.9	82.9%	21783
Apr	223.9	196.3	87.6%	22219
Mai	231.4	205.9	89.0%	23056
Jun	223.9	195.6	87.3%	35125
Jul	231.4	200.4	86.6%	29727
Aug	231.4	198.1	85.6%	391001
Sep	223.9	166.0	74.1%	111342
Okt	231.4	205.6	88.9%	87895
Nov	223.9	201.0	89.7%	60327
Dez	231.4	204.2	88.2%	63279
2023	2724.7	2306.3	84.7%	486284
2022	2724.7	2239.8	82.1%	463217
2021	2724.7	2308.5	84.6%	684638
2020	2732.2	2104.1	77.0%	659920
2019	1142.1	830.1	72.8%	181474
Total	19319.3	15831.8	81.9%	4851591

Mio_Max = max of potential usage

= walltime of month * number of cores

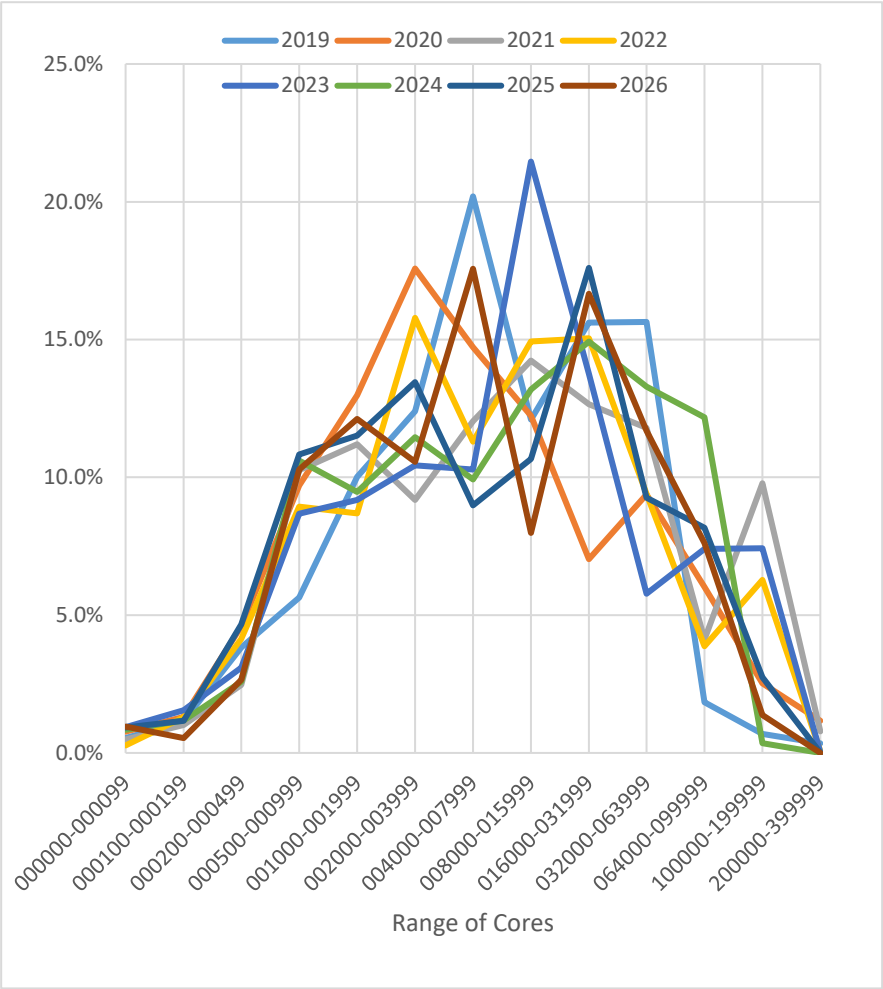
% = utilization = % of Max = Mio Core-h/Mio MAX



Usage by Jobsite

Usage (core-h) by Job size

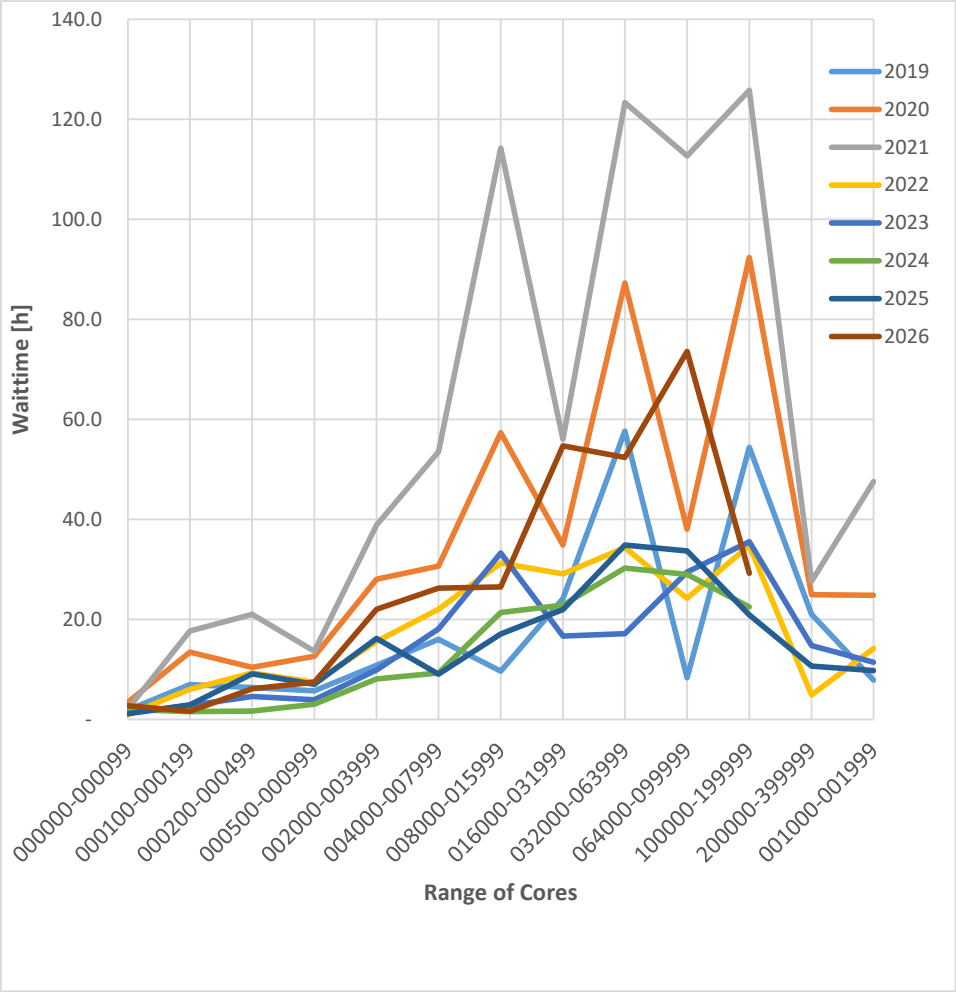
Usage by Job Size									
Range of cores	2019	2020	2021	2022	2023	2024	2025	2026	Total
000000-000099	0.5%	0.8%	0.5%	0.3%	0.9%	0.8%	0.9%	1.0%	0.7%
000100-000199	1.2%	1.3%	1.0%	1.3%	1.5%	1.2%	1.2%	0.5%	1.2%
000200-000499	3.8%	4.6%	2.5%	4.1%	3.1%	2.6%	4.7%	2.6%	3.5%
000500-000999	5.6%	9.7%	10.3%	8.9%	8.7%	10.6%	10.8%	10.3%	9.7%
001000-001999	10.0%	13.0%	11.2%	8.7%	9.2%	9.5%	11.5%	12.1%	10.6%
002000-003999	12.4%	17.6%	9.2%	15.8%	10.4%	11.5%	13.5%	10.6%	12.7%
004000-007999	20.2%	14.7%	12.0%	11.3%	10.3%	9.9%	9.0%	17.6%	12.2%
008000-015999	12.1%	12.2%	14.2%	14.9%	21.5%	13.2%	10.7%	8.0%	13.8%
016000-031999	15.6%	7.0%	12.7%	15.0%	13.8%	14.9%	17.6%	16.7%	14.0%
032000-063999	15.6%	9.4%	11.8%	9.4%	5.8%	13.3%	9.3%	11.7%	10.3%
064000-099999	1.8%	6.0%	4.1%	3.9%	7.4%	12.2%	8.2%	7.6%	6.8%
100000-199999	0.7%	2.5%	9.8%	6.3%	7.4%	0.4%	2.7%	1.4%	4.3%
200000-399999	0.3%	1.2%	0.8%	0.1%	0.0%	0.0%	0.0%	0.0%	0.3%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%



Wait time by Jobsite

Average Wait Time [hours] by Jobsite

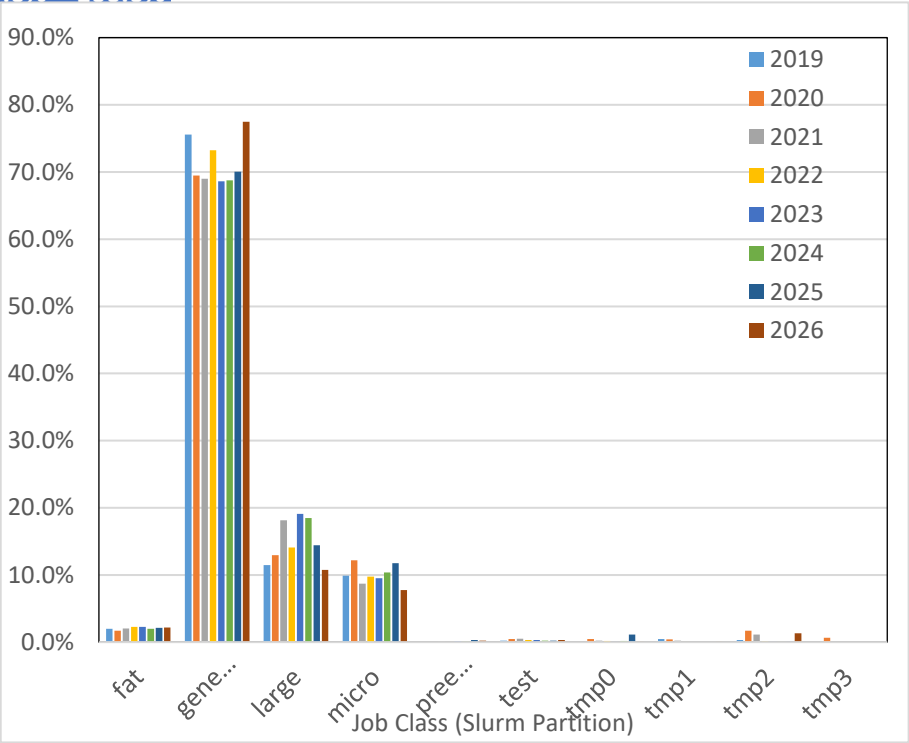
Avg. Wait Time [h]									
Jobsite [cores]	2019	2020	2021	2022	2023	2024	2025	2026	Total
000000-000099	1.9	3.4	2.1	1.0	1.3	2.0	1.1	2.8	1.9
000100-000199	7.0	13.5	17.7	6.0	2.8	1.6	2.9	1.6	6.6
000200-000499	6.4	10.4	21.0	9.3	4.6	1.7	9.1	6.2	8.6
000500-000999	5.7	12.7	13.7	7.5	3.9	3.0	7.1	7.4	7.6
002000-003999	10.8	28.1	38.9	15.6	9.9	8.1	16.2	22.1	18.7
004000-007999	16.0	30.7	53.5	22.0	18.1	9.3	9.0	26.2	23.1
008000-015999	9.6	57.3	114.3	31.3	33.3	21.4	17.1	26.5	38.8
016000-031999	24.2	34.9	56.0	29.1	16.6	22.9	22.0	54.7	32.6
032000-063999	57.7	87.3	123.4	34.3	17.1	30.3	34.9	52.4	54.7
064000-099999	8.3	38.0	112.7	24.2	29.5	29.0	33.7	73.6	43.6
100000-199999	54.4	92.4	125.8	34.8	35.5	22.5	20.9	29.2	51.9
200000-399999	21.0	24.9	27.6	4.9	14.8		10.6		17.3
001000-001999	7.8	24.8	47.6	14.2	11.5	3.4	9.8	9.4	16.1
Total	17.8	35.3	58.0	18.0	15.3	12.9	15.0	26.0	24.9



Usage by Job Class

% Usage (core-h) by Jobclass

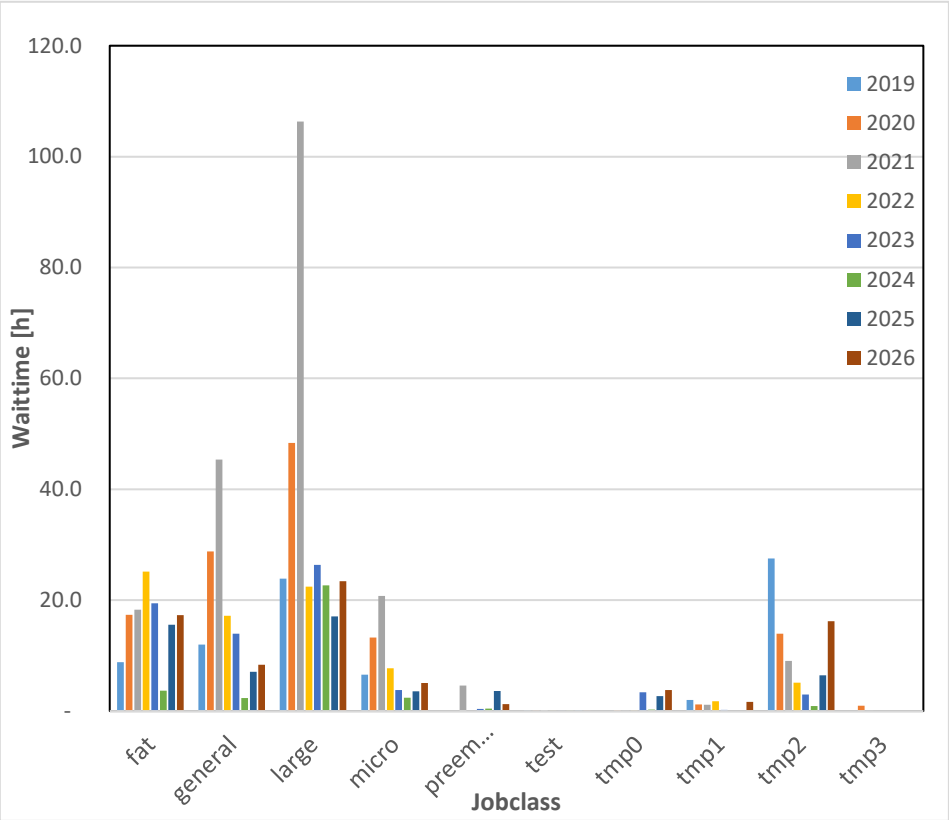
Usage	2019	2020	2021	2022	2023	2024	2025	2026	Total
fat	2.0%	1.7%	2.0%	2.3%	2.3%	2.0%	2.1%	2.2%	2.1%
general	75.6%	69.5%	69.0%	73.3%	68.6%	68.8%	70.0%	77.5%	70.8%
large	11.5%	12.9%	18.2%	14.1%	19.1%	18.5%	14.4%	10.8%	15.5%
micro	9.9%	12.2%	8.7%	9.8%	9.5%	10.4%	11.8%	7.7%	10.1%
preempt	0.0%	0.0%	0.0%	0.0%	0.1%	0.1%	0.3%	0.2%	0.1%
test	0.2%	0.5%	0.5%	0.3%	0.3%	0.2%	0.2%	0.3%	0.3%
tmp0	0.0%	0.5%	0.2%	0.2%	0.0%	0.2%	1.1%	0.0%	0.3%
tmp1	0.5%	0.4%	0.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.1%
tmp2	0.3%	1.7%	1.1%	0.1%	0.0%	0.0%	0.0%	1.3%	0.5%
tmp3	0.0%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%



Waittime by Job Class

Average Wait Time [hours] by Jobclass

Avg Wait_h	2019	2020	2021	2022	2023	2024	2025	2026	Total
fat	8.8	17.3	18.3	25.1	19.4	3.7	15.6	17.3	15.7
general	12.0	28.8	45.3	17.2	14.0	2.4	7.1	8.4	13.9
large	23.9	48.4	106.3	22.4	26.3	22.7	17.1	23.4	32.2
micro	6.6	13.3	20.8	7.7	3.8	2.4	3.5	5.1	7.9
preempt	na	na	4.6	na	0.4	0.5	3.6	1.3	2.2
test	0.1	0.1	0.1	0.0	0.0	0.1	0.2	0.1	0.1
tmp0	na	0.2	0.0	0.1	3.4	0.3	2.7	3.8	1.5
tmp1	2.0	1.2	1.2	1.8	0.2	na	na	1.7	1.3
tmp2	27.5	14.0	9.1	5.1	3.0	0.9	6.4	16.2	9.6
tmp3	na	1.0	0.0	na	na	na	na	na	0.5
Total	11.5	13.8	20.6	9.9	7.8	4.5	6.7	9.0	10.0



Usage by Research Area

Usage by Research Area (DFG Classification Level 2, 3 and 4)

LV2 LV3 LV4

Usage		2019	2020	2021	2022	2023	2024	2025	2026	Total
Physics		57.8%	52.9%	56.0%	53.3%	57.9%	58.0%	65.7%	64.1%	58.0%
	Particles, Nuclei and Fields	26.8%	25.8%	20.5%	20.0%	29.1%	25.2%	25.0%	35.6%	25.4%
	Nuclear and Elementary Particle Physics, Quantum Mechanics, Relativity, Fields	26.8%	25.8%	20.5%	20.0%	29.1%	25.2%	25.0%	35.6%	25.4%
	Astrophysics and Astronomy	20.8%	16.7%	19.3%	19.4%	13.5%	15.0%	18.2%	16.4%	17.2%
	Astrophysics and Astronomy	20.8%	16.7%	19.3%	19.4%	13.5%	15.0%	18.2%	16.4%	17.2%
	Condensed Matter Physics	9.7%	8.2%	13.6%	10.7%	11.9%	14.6%	16.7%	8.3%	12.2%
	Theoretical Condensed Matter Physics	9.7%	7.4%	13.1%	10.6%	11.9%	14.5%	16.0%	8.2%	11.8%
	Experimental Condensed Matter Physics	0.0%	0.8%	0.5%	0.1%	0.0%	0.1%	0.7%	0.2%	0.3%
	Optics, Quantum Optics and Physics of Atoms, Molecules and Plasmas	0.5%	2.1%	2.5%	3.2%	1.7%	2.5%	4.1%	3.8%	2.7%
	Optics, Quantum Optics, Atoms, Molecules, Plasmas	0.5%	2.1%	2.5%	3.2%	1.7%	2.5%	4.1%	3.8%	2.7%
	Statistical Physics, Soft Matter, Biological Physics, Nonlinear Dynamics	0.0%	0.0%	0.0%	0.0%	1.7%	0.8%	1.6%	0.1%	0.6%
	Statistical Physics, Soft Matter, Biological Physics, Nonlinear Dynamics	0.0%	0.0%	0.0%	0.0%	1.7%	0.8%	1.6%	0.1%	0.6%
Thermal Engineering/ Process Engineering		26.5%	27.3%	22.2%	28.5%	27.4%	25.7%	21.5%	22.3%	25.2%
	Heat Energy Technology, Thermal Machines, Fluid Mechanics	26.5%	26.8%	22.2%	26.1%	26.7%	25.7%	20.7%	21.3%	24.5%
	Fluid Mechanics	26.4%	22.3%	19.1%	25.8%	26.5%	21.2%	19.7%	20.4%	22.4%
	Technical Thermodynamics	0.1%	4.4%	3.1%	0.3%	0.2%	0.1%	0.1%	0.2%	1.2%
	Energy Process Engineering	0.0%	0.2%	0.0%	0.0%	0.0%	4.3%	0.0%	0.0%	0.7%
	Hydraulic and Turbo Engines and Piston Engines	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.8%	0.7%	0.2%
	Process Engineering, Technical Chemistry	0.1%	0.5%	0.0%	2.4%	0.7%	0.0%	0.8%	0.9%	0.7%
	Chemical and Thermal Process Engineering	0.0%	0.0%	0.0%	2.4%	0.7%	0.0%	0.1%	0.4%	0.5%
	Biological Process Engineering	0.1%	0.5%	0.0%	0.0%	0.0%	0.0%	0.8%	0.5%	0.2%
Geosciences		4.9%	2.6%	5.9%	4.2%	5.8%	7.1%	3.5%	6.7%	5.0%
	Atmospheric Science, Oceanography and Climate Research	0.9%	0.3%	2.1%	2.1%	4.3%	4.8%	1.7%	3.3%	2.5%
	Atmospheric Science	0.9%	0.3%	2.1%	2.1%	4.3%	4.8%	1.7%	3.3%	2.5%
	Geophysics and Geodesy	0.9%	1.3%	3.2%	1.7%	1.2%	1.4%	1.3%	3.0%	1.8%
	Geophysics	0.5%	0.8%	2.5%	1.4%	1.1%	1.3%	1.3%	3.0%	1.5%
	Geodesy, Photogrammetry, Remote Sensing, Geoinformatics, Cartography	0.3%	0.5%	0.7%	0.3%	0.0%	0.1%	0.0%	0.0%	0.2%
	Geochemistry, Mineralogy and Crystallography	3.2%	0.9%	0.3%	0.2%	0.3%	0.4%	0.4%	0.3%	0.5%
	Geochemistry, Mineralogy and Crystallography	3.2%	0.9%	0.3%	0.2%	0.3%	0.4%	0.4%	0.3%	0.5%
	Water Research	0.0%	0.0%	0.2%	0.2%	0.1%	0.5%	0.2%	0.2%	0.2%
	Hydrogeology, Hydrology, Limnology, Urban Water Management, Water Chemistry, Integrated Water Resources Management	0.0%	0.0%	0.2%	0.2%	0.1%	0.5%	0.2%	0.2%	0.2%
	Geography	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Physical Geography	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Chemistry		1.2%	5.0%	4.7%	5.7%	2.1%	3.1%	2.4%	1.5%	3.5%
	Chemical Solid State and Surface Research	0.9%	1.5%	0.5%	1.8%	0.9%	1.5%	1.4%	1.3%	1.2%
	Theory and Modelling	0.9%	1.5%	0.4%	0.4%	0.6%	0.6%	0.8%	0.9%	0.7%
	Physical Chemistry of Solids and Surfaces, Material Characterisation	0.0%	0.0%	0.1%	1.4%	0.3%	0.9%	0.5%	0.4%	0.5%
	Solid State and Surface Chemistry, Material Synthesis	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Usage by Research Area

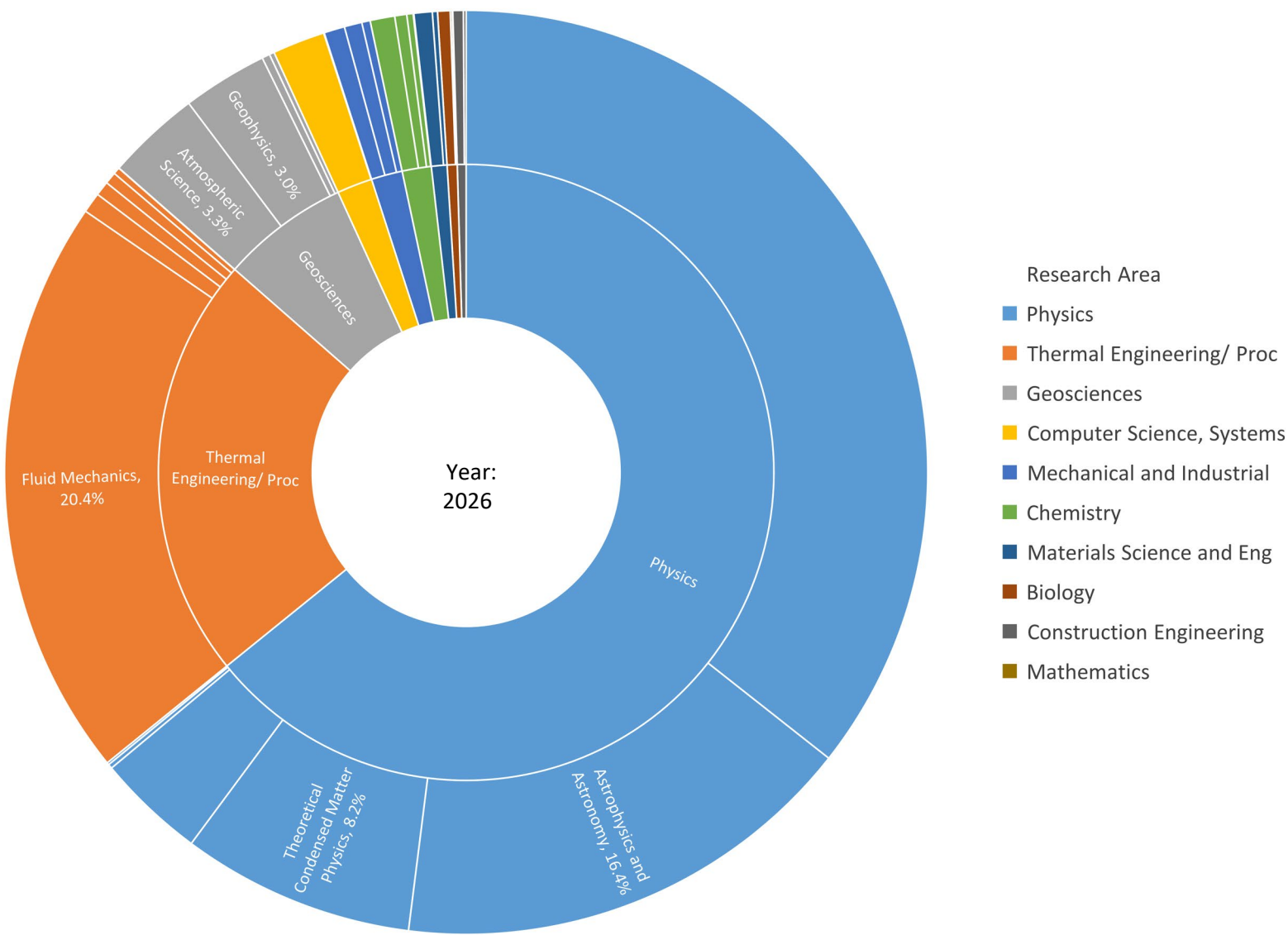
[illegible]

Usage by Research Area

[illegible]

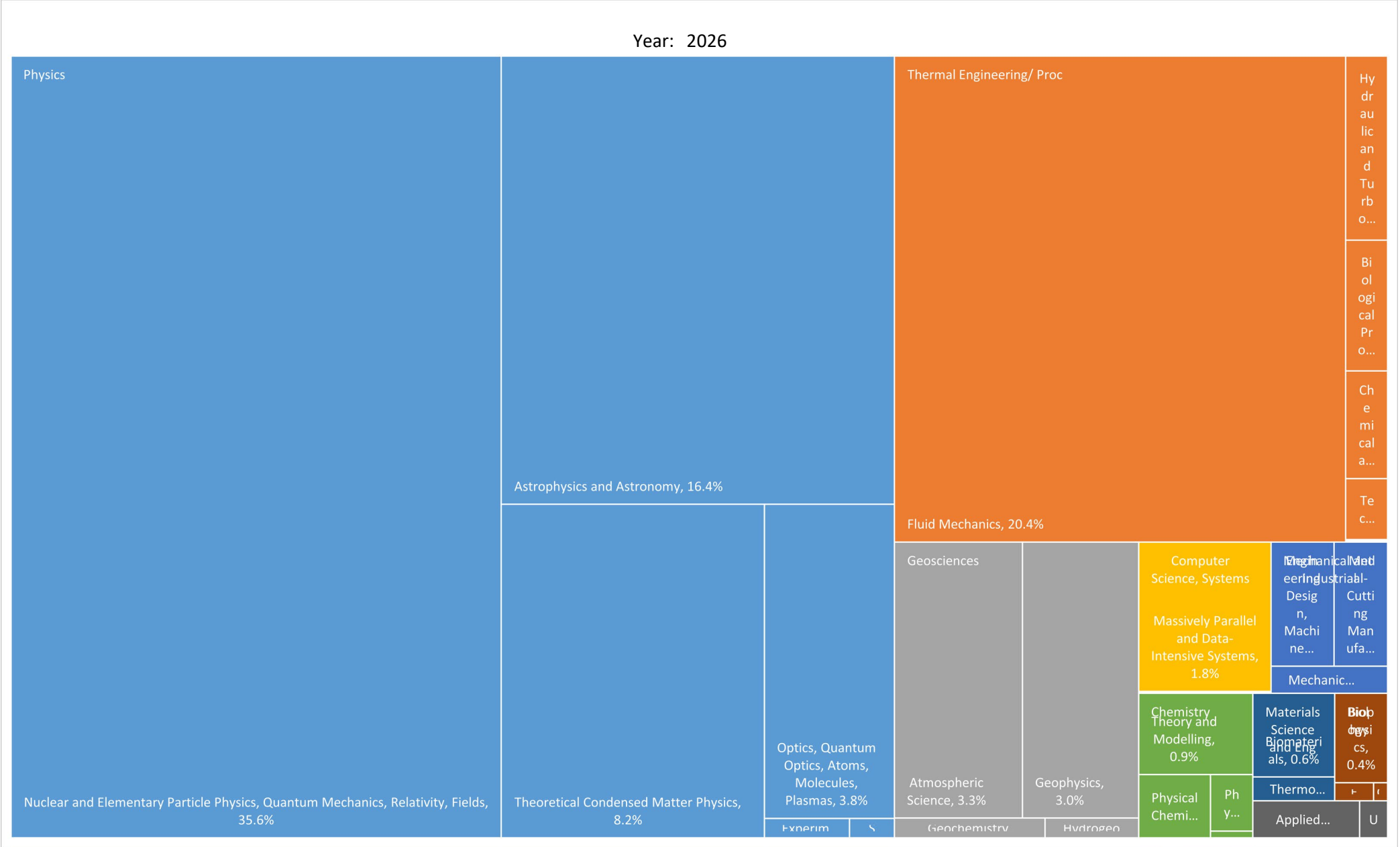
Usage by Research Area

Usage by Research Area (DFG Level 2 and 3)



Usage by Research Area

Usage by Research Area (DFG Level 2 and 3)



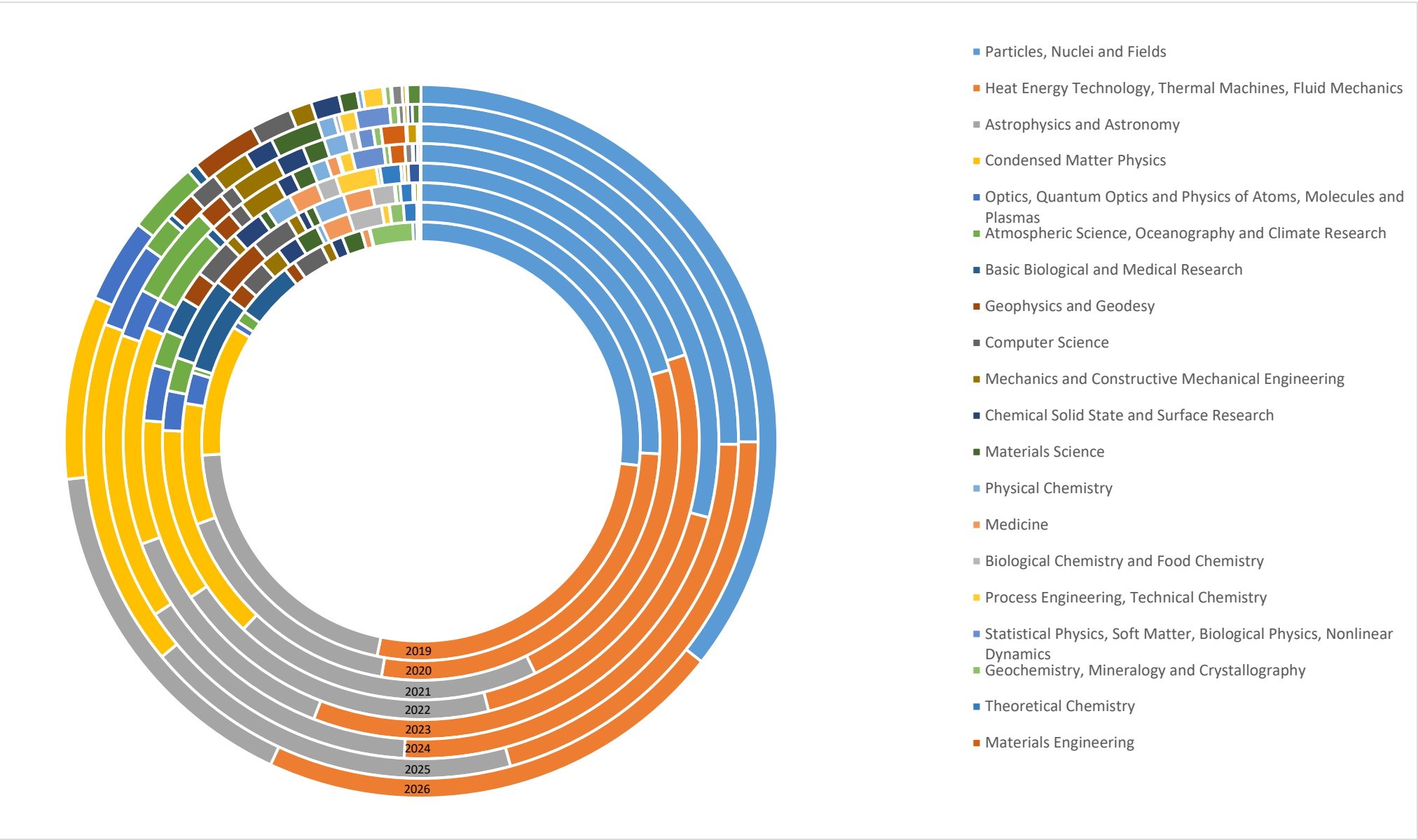
Usage by Research Area

Usage by research Area (DFG Level 3)

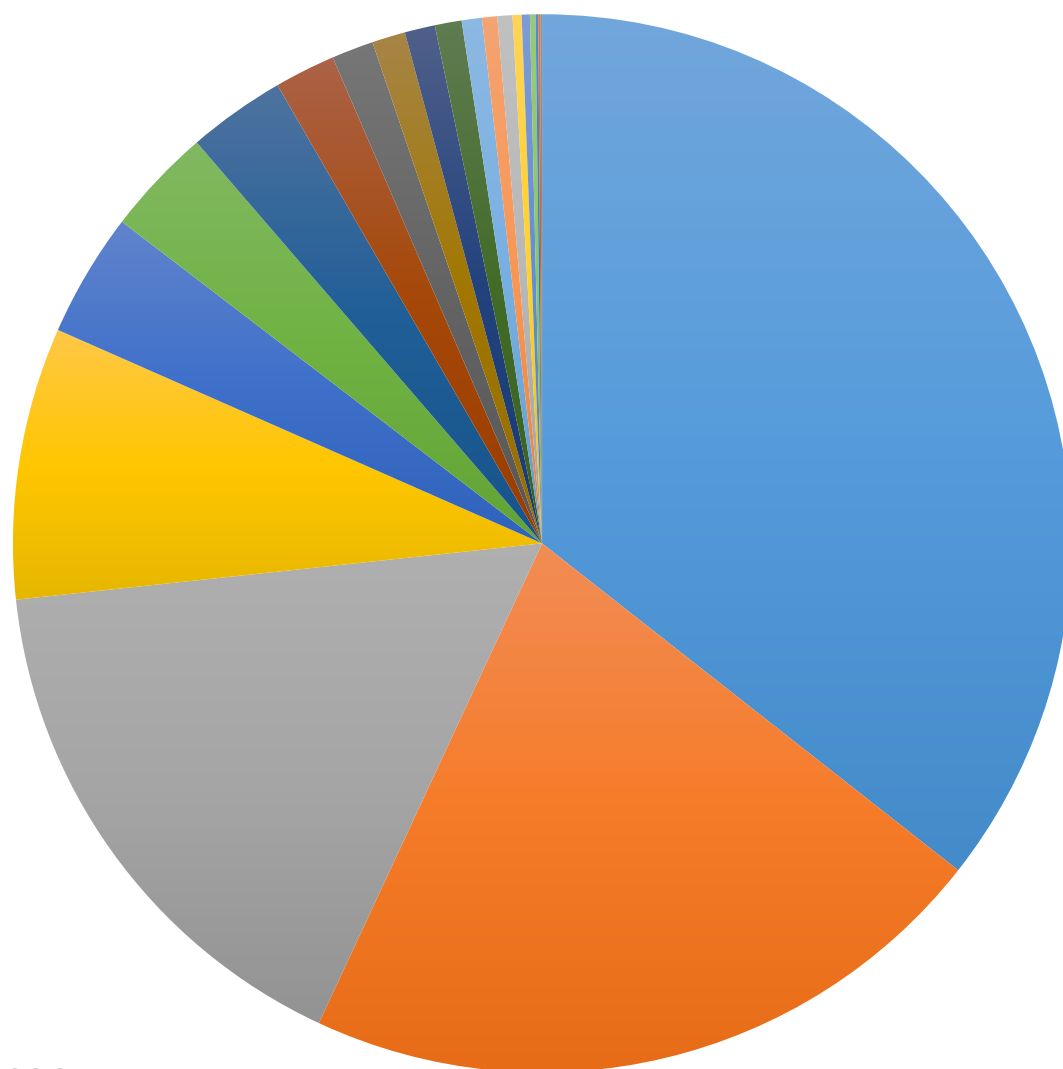
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Usage by Research Area

Usage By Research Area (DFG Lvevel 3)



Usage



DFG_TOPIC_LVL3_DESC

Particles, Nuclei and Fields

Heat Energy Technology, Thermal Machines, Fluid Mechanics

Astrophysics and Astronomy

Condensed Matter Physics

Optics, Quantum Optics and Physics of Atoms, Molecules and Plasmas

Atmospheric Science, Oceanography and Climate Research

Geophysics and Geodesy

Computer Science

Chemical Solid State and Surface Research

Mechanics and Constructive Mechanical Engineering

Process Engineering, Technical Chemistry

Materials Science

Production Technology

Construction Engineering and Architecture

Basic Biological and Medical Research

Geochemistry, Mineralogy and Crystallography

2026

Year

