

IceCube M&O Staffing Matrix sort by WBS v12.0 2012.0315

WBS L2		WBS L3			Institution	Labor Cat.	Names	Tasks	NSF M&O Core	NSF Base Grants	U.S. IN-KIND	Non U.S. In-Kind	Grand Total
Cat.	Description	Cat.	Description	Cat.	Description	Cat.	Description						
AD	Administration	GR	Graduate Student	PO	Postdoctoral Scientist	TE	Technician						
CS	Computer Science Eng.	KE	Key Personnel/Faculty	SC	Scientist	WO	Winterover						
EN	Engineer	MA	Management	SE	Senior Engineer								
2.1 Program Management	2.1.1 Administration	LBNL	KE	KLEIN, SPENCER	Supervise LBNL effort	0.05						0.05	
2.1 Program Management	2.1.1 Administration	LBNL	KE	KLEIN, SPENCER	Preparing 2012 Coll. Meeting					0.10		0.10	
2.1 Program Management	2.1.1 Administration	LBNL	KE	KLEIN, SPENCER	Pubcom member					0.10		0.10	
2.1 Program Management	2.1.1 Administration	LBNL	KE	STOKSTAD, BOB	Preparing 2012 Coll. Meeting					0.10		0.10	
2.1 Program Management	2.1.1 Administration	LBNL	GR	MIARECKI, SANDRA	Preparing 2012 Coll. Meeting			0.20				0.20	
2.1 Program Management	2.1.1 Administration	UWRF	KE	MADSEN, JIM	Speakers Comm Chair					0.25		0.25	
2.1 Program Management	2.1.1 Administration	PSU	KE	COWEN, DOUG	ExecCom member					0.20		0.20	
2.1 Program Management	2.1.1 Administration	UCB	SC	FILIMONOV, KIRILL	Pubcom member			0.10				0.10	
2.1 Program Management	2.1.1 Administration	UCB	KE	PRICE, BUFORD	Education & Outreach					0.10		0.10	
2.1 Program Management	2.1.1 Administration	UCB	SC	WOSCHNAGG, KURT	Speakers Comm member			0.10				0.10	
2.1 Program Management	2.1.1 Administration	UD	KE	GAISSER, TOM	ExecCom member					0.20		0.20	
2.1 Program Management	2.1.1 Administration	UD	KE	STANEV, TODOR	Pubcom member					0.10		0.10	
2.1 Program Management	2.1.1 Administration	UMD	KE	SULLIVAN, GREG	Spokesperson	0.30						0.30	
2.1 Program Management	2.1.1 Administration	UMD	KE	SULLIVAN, GREG	ExecCom member					0.20		0.20	
2.1 Program Management	2.1.1 Administration	UMD	PO	WISSING, HENRIKE	Pubcom member			0.10				0.10	
2.1 Program Management	2.1.1 Administration	StonyBrook	KE	KIRYLUK, JOANNA	Simulation Prod. Comm member					0.05		0.05	
2.1 Program Management	2.1.1 Administration	UW	KE	HALZEN, FRANCIS	Principle Investigator	0.08						0.08	
2.1 Program Management	2.1.1 Administration	UW	KE	HALZEN, FRANCIS	Principle Investigator					0.33		0.33	
2.1 Program Management	2.1.1 Administration	UW	KE	KARLE, ALBRECHT	Associate Director for Science	0.08						0.08	
2.1 Program Management	2.1.1 Administration	UW	KE	KARLE, ALBRECHT	Associate Director for Science					0.33		0.33	
2.1 Program Management	2.1.1 Administration	UW	KE	YECK, JAMES	Director of Operations	0.50						0.50	
2.1 Program Management	2.1.1 Administration	UW	SC	DESIATI, PAOLO	Pubcom member			0.10				0.10	
2.1 Program Management	2.1.1 Administration	UW	MA	UW Manager	Computing Infrastructure Management	1.00						1.00	
2.1 Program Management	2.1.1 Administration	UW	MA	PELES, ADI	Resource Coordinator	0.50						0.50	
2.1 Program Management	2.1.1 Administration	UW	AD	Vakhnina, Catherine	Administrative Support	0.50						0.50	
2.1 Program Management	2.1.1 Administration	US Total						3.02	0.60	2.07			5.68
2.1 Program Management	2.1.1 Administration	ALBERTA	KE	GRANT, DARREN	Pubcom adjoint member						0.10	0.10	
2.1 Program Management	2.1.1 Administration	DESY	KE	SPIERING, CHRISTIAN	ExecCom member						0.10	0.10	
2.1 Program Management	2.1.1 Administration	DESY	KE	ACKERMANN, MARKUS	Analysis Coordinator						0.35	0.35	
2.1 Program Management	2.1.1 Administration	HUMBOLDT	KE	KAPPES, ALEXANDER	Pubcom member						0.10	0.10	
2.1 Program Management	2.1.1 Administration	RWTH	KE	WIEBUSCH, CHRISTOPHER	Coordinate BMBF Funding						0.10	0.10	
2.1 Program Management	2.1.1 Administration	SU	KE	HULTH, PER OLOF	ExecCom member						0.20	0.20	
2.1 Program Management	2.1.1 Administration	SU	KE	HULTH, PER OLOF	ICB Member						0.05	0.05	
2.1 Program Management	2.1.1 Administration	SU	KE	HULTQVIST, KLAS	ICB Member						0.05	0.05	
2.1 Program Management	2.1.1 Administration	SU	KE	FINLEY, CHAD SU	Coordination with LIGO						0.10	0.10	
2.1 Program Management	2.1.1 Administration	SU	KE	WALCK, CHRISTIAN	Publications Bookkeeping						0.10	0.10	
2.1 Program Management	2.1.1 Administration	ULB	KE	HANSON, Kael ULB	ExecCom member						0.20	0.20	
2.1 Program Management	2.1.1 Administration	UU	KE	BOTNER, OLGA	Outreach						0.05	0.05	
2.1 Program Management	2.1.1 Administration	UU	KE	BOTNER, OLGA	Pubcom Chair						0.40	0.40	
2.1 Program Management	2.1.1 Administration	UU	KE	HALLGREN, ALLAN	Outreach						0.05	0.05	
2.1 Program Management	2.1.1 Administration	UU	KE	HALLGREN, ALLAN	Speakers Comm member						0.10	0.10	
2.1 Program Management	2.1.1 Administration	VUB	KE	DE CLERCQ, CATHERINE	ExecCom member						0.20	0.20	
2.1 Program Management	2.1.1 Administration	WUPPERTAL	KE	HELBING, KLAUS	Speakers Comm member						0.10	0.10	
2.1 Program Management	2.1.1 Administration	RWTH	KE	WIEBUSCH, CHRISTOPHER	ExecCom member						0.20	0.20	
2.1 Program Management	2.1.1 Administration	MAINZ	KE	KOPKE, LUTZ	Supernova group Co-Chair						0.25	0.25	
2.1 Program Management	2.1.1 Administration	BOCHUM	KE	BECKER, JULIA	Pubcom member						0.10	0.10	
2.1 Program Management	2.1.1 Administration	Non-US Total										2.90	2.90
2.1 Program Management	2.1.1 Administration							3.02	0.60	2.07	2.90	2.90	8.58

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WBS L2		WBS L3			Institution	Labor Cat.	Names	Tasks	NSF M&O Core	NSF Base Grants	U.S. IN-KIND	Non U.S. In-Kind	Grand Total	
Cat.	Description	Cat.	Description	Cat.	Description	Cat.	Description							
AD	Administration	GR	Graduate Student	PO	Postdoctoral Scientist	TE	Technician							
CS	Computer Science Eng.	KE	Key Personnel/Faculty	SC	Scientist	WO	Winterover							
EN	Engineer	MA	Management	SE	Senior Engineer									
2.1 Program Management	2.1.2 Engineering And R&D Support	KU	KE	BESSON, DAVE	EMI - Radio R&D					0.10			0.10	
2.1 Program Management	2.1.2 Engineering And R&D Support	UMD	KE	HOFFMAN, KARA	Detector R&D					0.20			0.20	
2.1 Program Management	2.1.2 Engineering And R&D Support	UW	SC	DUVERNOIS, MICHAEL	Science Support			0.25					0.25	
2.1 Program Management	2.1.2 Engineering And R&D Support	UW	SC	DUVERNOIS, MICHAEL	EMI, Instrumentation, I/F			0.15					0.15	
2.1 Program Management	2.1.2 Engineering And R&D Support	UW	SE	LAUNDRIE, ANDREW	EMI, Instrumentation, I/F			0.10					0.10	
2.1 Program Management	2.1.2 Engineering And R&D Support	UW	SE	LAUNDRIE, ANDREW	Engineering Support			0.65					0.65	
2.1 Program Management	2.1.2 Engineering And R&D Support	UW	SE	SANDSTROM, PERRY	EMI, Instrumentation, I/F			0.25					0.25	
2.1 Program Management	2.1.2 Engineering And R&D Support	UW	SE	SANDSTROM, PERRY	Engineering Support			0.25					0.25	
2.1 Program Management	2.1.2 Engineering And R&D Support	UW	MA	HAUGEN, JAMES	Engineering Support			0.10					0.10	
2.1 Program Management	2.1.2 Engineering And R&D Support	UW	SC	DUVERNOIS, MICHAEL	EMI, Instrumentation, I/F			0.25					0.25	
2.1 Program Management	2.1.2 Engineering And R&D Support	US Total						2.00	0.00	0.30			2.30	
2.1 Program Management	2.1.2 Engineering And R&D Support	DESY	KE	NAHNHAUER, ROLF	Acoustic R&D Support							0.10	0.10	
2.1 Program Management	2.1.2 Engineering And R&D Support	EPFL	KE	RIBORDY, MATHIEU	Acoustic R&D Support							0.02	0.02	
2.1 Program Management	2.1.2 Engineering And R&D Support	RWTH	PO	LAIHEM, KARIM	Acoustic R&D Support							0.10	0.10	
2.1 Program Management	2.1.2 Engineering And R&D Support	RWTH	PO	LAIHEM, KARIM	Acoustic WG Lead							0.10	0.10	
2.1 Program Management	2.1.2 Engineering And R&D Support	RWTH	PO	PAUL, LARRISA	RASTA Antenna Construction							0.10	0.10	
2.1 Program Management	2.1.2 Engineering And R&D Support	RWTH	GR	HEINEN, DIRK	Acoustic R&D Support							0.10	0.10	
2.1 Program Management	2.1.2 Engineering And R&D Support	ULB	KE	HANSON, KAEUL ULB	EMI/R&D							0.10	0.10	
2.1 Program Management	2.1.2 Engineering And R&D Support	UU	KE	HALLGREN, ALLAN	Acoustic R&D Support							0.05	0.05	
2.1 Program Management	2.1.2 Engineering And R&D Support	WUPPERTAL	KE	HELBING, KLAUS	R&D Lead							0.10	0.10	
2.1 Program Management	2.1.2 Engineering And R&D Support	WUPPERTAL	KE	WUPPERTAL KE	RFI							0.10	0.10	
2.1 Program Management	2.1.2 Engineering And R&D Support	WUPPERTAL	PO	KARG, TIMO	Acoustic							0.10	0.10	
2.1 Program Management	2.1.2 Engineering And R&D Support	GENT	SC	UGENT SC	Acoustic R&D Support							0.05	0.05	
2.1 Program Management	2.1.2 Engineering And R&D Support	GENT	GR	UGENT GR	Acoustic R&D Support							0.05	0.05	
2.1 Program Management	2.1.2 Engineering And R&D Support	Non-US Total											1.07	1.07
2.1 Program Management	2.1.2 Engineering And R&D Support	2.1.2 Engineering And R&D Support						2.00	0.00	0.30			1.07	3.37
2.1 Program Management	2.1.3 Usap Support	UW	MA	HAUGEN, JAMES	USAP Support			0.25					0.25	
2.1 Program Management	2.1.3 Usap Support	US Total						0.25					0.25	
2.1 Program Management	2.1.3 Usap Support	2.1.3 Usap Support						0.25					0.25	
2.1 Program Management	2.1.4 Education & Outreach	OSU	PO	OSU PO	Outreach					0.05			0.05	
2.1 Program Management	2.1.4 Education & Outreach	PSU	KE	COWEN, DOUG	Education & Outreach					0.05			0.05	
2.1 Program Management	2.1.4 Education & Outreach	PSU	KE	DEYOUNG, TYCE	Education & Outreach					0.05			0.05	
2.1 Program Management	2.1.4 Education & Outreach	UMD	KE	UMD KE	E&O					0.10			0.10	
2.1 Program Management	2.1.4 Education & Outreach	UW	AD	Gianopoulos, Andrea	Education & Outreach Coordination			0.75					0.75	
2.1 Program Management	2.1.4 Education & Outreach	UWRF	KE	MADSEN, JIM	Teachers' program & UWRF Upward Bound			0.10					0.10	
2.1 Program Management	2.1.4 Education & Outreach	UWRF	TE	UWRF TE	Teachers Program			0.10					0.10	
2.1 Program Management	2.1.4 Education & Outreach	US Total						0.95	0.00	0.25			1.20	
2.1 Program Management	2.1.4 Education & Outreach	2.1.4 Education & Outreach						0.95	0.00	0.25			1.20	
2.1 Program Management	WBS L2 Total							6.22	0.60	2.62	3.97		13.40	

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Cat.	Description	Cat.	Description	Cat.	Description	Cat.	Description					
AD	Administration	GR	Graduate Student	PO	Postdoctoral Scientist	TE	Technician					
CS	Computer Science Eng.	KE	Key Personnel/Faculty	SC	Scientist	WO	Winterover					
EN	Engineer	MA	Management	SE	Senior Engineer							
2.2 Detector Operations & Maint	2.2 Detector Operations & Maintenance	LBNL	KE	NYGREN, DAVID R		Track Engine Trigger				0.10		0.10
2.2 Detector Operations & Maint	2.2 Detector Operations & Maintenance	UW	MA	LAITSCH, DENISE		Detector Operations Manager		1.00				1.00
2.2 Detector Operations & Maint	2.2 Detector Operations & Maintenance	US Total						1.00	0.00	0.10		1.10
2.2 Detector Operations & Maint	2.2 Detector Operations & Maintenance	UMH	GR	KOHNNEN, GEORGE		Database Coordinator					0.10	0.10
		Non-US Total									0.10	0.10
2.2 Detector Operations & Maint	2.2 Detector Operations & Maintenance							1.00	0.00	0.10	0.10	1.20
2.2 Detector Operations & Maint	2.2.1 Run Coordination	UW	SC	KRASBERG, MARK		Winter Overs coordinator		0.25				0.25
2.2 Detector Operations & Maint	2.2.1 Run Coordination	UW	TE	UW Winter Overs		Operate Detector (Winter-Overs)		3.00				3.00
2.2 Detector Operations & Maint	2.2.1 Run Coordination	US Total						3.25	0.00	0.00		3.25
2.2 Detector Operations & Maint	2.2.1 Run Coordination	UC	GR	UC GR		Flasher Runs					0.10	0.10
2.2 Detector Operations & Maint	2.2.1 Run Coordination	BONN	PO	BOSSER, SEBASTIAN		Run Coordinator					0.50	0.50
2.2 Detector Operations & Maint	2.2.1 Run Coordination	Non-US Total									0.60	0.60
2.2 Detector Operations & Maint	2.2.1 Run Coordination							3.25	0.00	0.00	0.60	3.85
2.2 Detector Operations & Maint	2.2.2 Data Acquisition	LBNL	EN	STEZELBERGER, THORSTE		Maintain DAQ Hardware (Hubs, DOR, Clocks, GPS,...)		0.15				0.15
2.2 Detector Operations & Maint	2.2.2 Data Acquisition	UD	KE	SECKEL, DAVID		DAQ Monitoring				0.05		0.05
2.2 Detector Operations & Maint	2.2.2 Data Acquisition	UW	SC	KRASBERG, MARK		DOM Cal Maintenance, DOM Monitoring and Troubleshooting		0.35				0.35
2.2 Detector Operations & Maint	2.2.2 Data Acquisition	UW	SC	KRASBERG, MARK		Provide Real-time System Monitoring and Paging		0.20				0.20
2.2 Detector Operations & Maint	2.2.2 Data Acquisition	UW	SC	WENDT, CHRISTOPHER		DOM CAL Maintenance		0.25				0.25
2.2 Detector Operations & Maint	2.2.2 Data Acquisition	UW	CS	Frere, Michael		Maintain DAQ Software Systems (incl. triggers, DOM SW, etc. up to Event Builder)		1.00				1.00
2.2 Detector Operations & Maint	2.2.2 Data Acquisition	UW	CS	GLOWACKI, DAVID		Maintain DAQ Software Systems (incl. triggers, DOM SW, etc. up to Event Builder)		1.00				1.00
2.2 Detector Operations & Maint	2.2.2 Data Acquisition	UW	CS	Newcomb, Matthew		Maintain DAQ Software Systems (incl. triggers, DOM SW, etc. up to Event Builder)		0.75				0.75
2.2 Detector Operations & Maint	2.2.2 Data Acquisition	UW	TE	BELLINGER, JIM		Maintain South Pole Test System Hardware and Operating Systems		0.25				0.25
2.2 Detector Operations & Maint	2.2.2 Data Acquisition	UW	SE	SANDSTROM, PERRY		Maintain DAQ Hardware (Hubs, DOR, Clocks, GPS,...)		0.25				0.25
2.2 Detector Operations & Maint	2.2.2 Data Acquisition	UW	CS	JACOBSEN, JOHN (NPX)		Maintain DAQ Hardware (Hubs, DOR, Clocks, GPS,...)		0.15				0.15
2.2 Detector Operations & Maint	2.2.2 Data Acquisition	UW	GR	WEAVER, CHRISTOPHER		DOM CAL Maintenance			0.15			0.15
2.2 Detector Operations & Maint	2.2.2 Data Acquisition	US Total						4.35	0.15	0.05		4.55
2.2 Detector Operations & Maint	2.2.2 Data Acquisition	ULB	KE	HANSON, KAEL ULB		Data Acquisition					0.20	0.20
2.2 Detector Operations & Maint	2.2.2 Data Acquisition	Non-US Total									0.20	0.20
2.2 Detector Operations & Maint	2.2.2 Data Acquisition							4.35	0.15	0.05	0.20	4.75

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Cat.	Description	Cat.	Description	Cat.	Description	Cat.	Description					
AD	Administration	GR	Graduate Student	PO	Postdoctoral Scientist	TE	Technician					
CS	Computer Science Eng.	KE	Key Personnel/Faculty	SC	Scientist	WO	Winterover					
EN	Engineer	MA	Management	SE	Senior Engineer							
2.2 Detector Operations & Mair	2.2.3 Online Filter (Pnf)	UMD	SC	BLAUFUSS, ERIK	Maintain PnF S/W and Online Filters	0.20						0.20
2.2 Detector Operations & Mair	2.2.3 Online Filter (Pnf)	UMD	CS	Schmidt, Torsten	Maintain PnF Software and Online Filters	0.30						0.30
2.2 Detector Operations & Mair	2.2.3 Online Filter (Pnf)	UMD	GR	REDL, PETER	Online Filter Testing		0.25					0.25
2.2 Detector Operations & Mair	2.2.3 Online Filter (Pnf)	US Total				0.50	0.25	0.00				0.75
2.2 Detector Operations & Mair	2.2.3 Online Filter (Pnf)					0.50	0.25	0.00				0.75
2.2 Detector Operations & Mair	2.2.4 Sps Operations	UW	SE	SANDSTROM, PERRY	Maintain South Pole Computing H/W Infrastructure and operating systems	0.25						0.25
2.2 Detector Operations & Mair	2.2.4 Sps Operations	UW	TE	UW Technician	Maintain South Pole Computing H/W Infrastructure and operating systems	0.75						0.75
2.2 Detector Operations & Mair	2.2.4 Sps Operations	UW	TE	WISNIEWSKI, PAUL	Networking and Security Maintenance	0.25						0.25
2.2 Detector Operations & Mair	2.2.4 Sps Operations	US Total				1.25	0.00	0.00				1.25
2.2 Detector Operations & Mair	2.2.4 Sps Operations					1.25	0.00	0.00				1.25
2.2 Detector Operations & Mair	2.2.5 Spts Operations	UW	SE	LAUNDRIE, ANDREW	Maintain South Pole Test System Hardware and Operating Systems	0.10						0.10
2.2 Detector Operations & Mair	2.2.5 Spts Operations	UW	TE	UW Technician	Maintain South Pole Test System Hardware and Operating Systems	0.25						0.25
2.2 Detector Operations & Mair	2.2.5 Spts Operations	US Total				0.35	0.00	0.00				0.35
2.2 Detector Operations & Mair	2.2.5 Spts Operations					0.35	0.00	0.00				0.35
2.2 Detector Operations & Mair	2.2.6 Experiment Control	UW	CS	JACOBSEN, JOHN (NPX)	IceCube Live Maintenance and Upgrades	0.65						0.65
2.2 Detector Operations & Mair	2.2.6 Experiment Control	US Total				0.65	0.00	0.00				0.65
2.2 Detector Operations & Mair	2.2.6 Experiment Control					0.65	0.00	0.00				0.65
2.2 Detector Operations & Mair	2.2.7 Detector Monitoring	CAU	KE	JAPARIDZE, GEORGE	Monitoring shifts				0.02			0.02
2.2 Detector Operations & Mair	2.2.7 Detector Monitoring	GTECH	GR	GTECH GR	Monitoring shifts		0.03					0.03
2.2 Detector Operations & Mair	2.2.7 Detector Monitoring	KU	KE	BESSON, DAVE	Monitoring shifts				0.02			0.02
2.2 Detector Operations & Mair	2.2.7 Detector Monitoring	StonyBrook	KE	KIRYLUK, JOANNA	BadDomList				0.10			0.10
2.2 Detector Operations & Mair	2.2.7 Detector Monitoring	LBNL	PO	CHANG, HYON HA	Monitoring shifts		0.09					0.09
2.2 Detector Operations & Mair	2.2.7 Detector Monitoring	OSU	PO	OSU PO	Monitoring shifts				0.02			0.02
2.2 Detector Operations & Mair	2.2.7 Detector Monitoring	OSU	PO	ROTT, CARSTEN	Maintain good run list				0.20			0.20
2.2 Detector Operations & Mair	2.2.7 Detector Monitoring	PSU	PO	CLARK, KEN	Monitoring shifts			0.03				0.03
2.2 Detector Operations & Mair	2.2.7 Detector Monitoring	PSU	GR	BELL, MICHAEL	Monitoring shifts		0.03					0.03
2.2 Detector Operations & Mair	2.2.7 Detector Monitoring	SUBR	SC	TER-ANTONYAN, SAMVEL	Detector Monitoring				0.02			0.02
2.2 Detector Operations & Mair	2.2.7 Detector Monitoring	UA	PO	ZARZHITZKY, PAVEL	Monitoring shifts			0.03				0.03
2.2 Detector Operations & Mair	2.2.7 Detector Monitoring	UA	GR	XU, DONGLIAN	Monitoring shifts			0.03				0.03
2.2 Detector Operations & Mair	2.2.7 Detector Monitoring	UA	GR	PEPPER, JAMES	Monitoring shifts			0.03				0.03
2.2 Detector Operations & Mair	2.2.7 Detector Monitoring	UA	GR	LARSON, MICHAEL	Monitoring shifts			0.03				0.03
2.2 Detector Operations & Mair	2.2.7 Detector Monitoring	UAA	KE	RAWLINS, KATHERINE	Monitoring shifts				0.02			0.02
2.2 Detector Operations & Mair	2.2.7 Detector Monitoring	UCB	SC	FILIMONOV, KIRILL	Coordinate Monitoring			0.10				0.10
2.2 Detector Operations & Mair	2.2.7 Detector Monitoring	UCB	SC	FILIMONOV, KIRILL	Coordinate Monitoring	0.25						0.25
2.2 Detector Operations & Mair	2.2.7 Detector Monitoring	UCB	SC	UCB SC	Monitoring shifts			0.10				0.10
2.2 Detector Operations & Mair	2.2.7 Detector Monitoring	UCB	GR	UCB GR	Monitoring shifts			0.10				0.10
2.2 Detector Operations & Mair	2.2.7 Detector Monitoring	UCI	PO	SILVERSTRI, ANDREA	Monitoring shifts				0.01			0.01
2.2 Detector Operations & Mair	2.2.7 Detector Monitoring	UCI	GR	HANSON, JORDAN	Monitoring shifts				0.01			0.01
2.2 Detector Operations & Mair	2.2.7 Detector Monitoring	UD	PO	KUWABARA, TAKAO	Temp. & Pressure atmospheric monitoring			0.40				0.40
2.2 Detector Operations & Mair	2.2.7 Detector Monitoring	UMD	PO	UMD PO	Monitoring shifts			0.03				0.03
2.2 Detector Operations & Mair	2.2.7 Detector Monitoring	UMD	GR	UMD GR	Monitoring shifts			0.06				0.06
2.2 Detector Operations & Mair	2.2.7 Detector Monitoring	UW	PO	UW PO	Monitoring shifts			0.12				0.12
2.2 Detector Operations & Mair	2.2.7 Detector Monitoring	UW	GR	UW GR	Monitoring shifts			0.12				0.12
2.2 Detector Operations & Mair	2.2.7 Detector Monitoring	US Total				0.25	1.33	0.41				1.99

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WBS L2		WBS L3		Institution	Labor Cat.	Names	Tasks	NSF M&O Core	NSF Base Grants	U.S. IN-KIND	Non U.S. In-Kind	Grand Total	
Cat.	Description	Cat.	Description	Cat.	Description	Cat.	Description						
AD	Administration	GR	Graduate Student	PO	Postdoctoral Scientist	TE	Technician						
CS	Computer Science Eng.	KE	Key Personnel/Faculty	SC	Scientist	WO	Winterover						
EN	Engineer	MA	Management	SE	Senior Engineer								
2.2	Detector Operations & Mair	2.2.7	Detector Monitoring	CHIBA	GR	CHIBA GR	Detector Monitoring				0.03	0.03	
2.2	Detector Operations & Mair	2.2.7	Detector Monitoring	DESY	SC	DESY SC	Detector Monitoring				0.06	0.06	
2.2	Detector Operations & Mair	2.2.7	Detector Monitoring	DESY	SC	BENABDERRAHMANE, LOF	Deputy Monitoring Coordinator				0.10	0.10	
2.2	Detector Operations & Mair	2.2.7	Detector Monitoring	DESY	GR	DESY GR	Detector Monitoring				0.12	0.12	
2.2	Detector Operations & Mair	2.2.7	Detector Monitoring	DTMND	GR	DTMD GR	Detector Monitoring				0.03	0.03	
2.2	Detector Operations & Mair	2.2.7	Detector Monitoring	EPFL	PO	BRUIJN, RONALD	Detector Monitoring				0.03	0.03	
2.2	Detector Operations & Mair	2.2.7	Detector Monitoring	Munchen	GR	MPI GR	Detector Monitoring				0.05	0.05	
2.2	Detector Operations & Mair	2.2.7	Detector Monitoring	RWTH	GR	PAUL, LARRISA	RASTA & SPATS monitoring				0.10	0.10	
2.2	Detector Operations & Mair	2.2.7	Detector Monitoring	RWTH	GR	HEINEN, DIRK	SPATS monitoring				0.10	0.10	
2.2	Detector Operations & Mair	2.2.7	Detector Monitoring	RWTH	GR	RWTH GR	Monitoring (3 weeks)				0.09	0.09	
2.2	Detector Operations & Mair	2.2.7	Detector Monitoring	SU	GR	SU GR	Detector Monitoring				0.06	0.06	
2.2	Detector Operations & Mair	2.2.7	Detector Monitoring	UC	GR	UC GR	Detector Monitoring				0.02	0.02	
2.2	Detector Operations & Mair	2.2.7	Detector Monitoring	ULB	GR	ULB GR	Detector Monitoring				0.03	0.03	
2.2	Detector Operations & Mair	2.2.7	Detector Monitoring	UOX	KE	SARKAR, SUBIR	Detector Monitoring				0.02	0.02	
2.2	Detector Operations & Mair	2.2.7	Detector Monitoring	UU	GR	UU GR	Detector Monitoring				0.03	0.03	
2.2	Detector Operations & Mair	2.2.7	Detector Monitoring	VUB	PO	VUB PO	Monitoring shifts				0.06	0.06	
2.2	Detector Operations & Mair	2.2.7	Detector Monitoring	VUB	GR	VUB GR	Monitoring shifts				0.06	0.06	
2.2	Detector Operations & Mair	2.2.7	Detector Monitoring	WUPPERTA	GR	WUPPERTAL GR	South Pole EMI Monitoring				0.15	0.15	
2.2	Detector Operations & Mair	2.2.7	Detector Monitoring	WUPPERTA	GR	WUPPERTAL GR	AURA, SPATS, surface antenna operations (RASTA)				0.45	0.45	
2.2	Detector Operations & Mair	2.2.7	Detector Monitoring	MAINZ	GR	UM GR	Detector Monitoring				0.05	0.05	
2.2	Detector Operations & Mair	2.2.7	Detector Monitoring	GENT	GR	UGENT GR	Detector Monitoring				0.03	0.03	
2.2	Detector Operations & Mair	2.2.7	Detector Monitoring	DPNC Geneva	PO	AGUILAR SANCHEZ JUAN A	Detector Monitoring				0.20	0.20	
2.2	Detector Operations & Mair	2.2.7	Detector Monitoring	BONN	GR	UBONN GR	Detector Monitoring				0.03	0.03	
2.2	Detector Operations & Mair	2.2.7	Detector Monitoring	BOCHUM	GR	UBOCHUM GR	Detector Monitoring				0.03	0.03	
2.2	Detector Operations & Mair	2.2.7	Detector Monitoring	Non-US Total								1.93	1.93
2.2	Detector Operations & Mair	2.2.7 Detector Monitoring						0.25	1.33	0.41	1.93	3.92	
2.2	Detector Operations & Mair	2.2.8	Detector Calibration	GTECH	GR	DAUGHHETEE, JACOB	Standard Candle Vertex and Energy Calibration		0.20			0.20	
2.2	Detector Operations & Mair	2.2.8	Detector Calibration	UA	KE	WILLIAMS, DAWN	managing flasher runs and other calibrations (stage 2 geometry)			0.15		0.15	
2.2	Detector Operations & Mair	2.2.8	Detector Calibration	UA	GR	XU, DONGLIAN	Low-energy cascade calibration with flashers		0.10			0.10	
2.2	Detector Operations & Mair	2.2.8	Detector Calibration	UA	GR	PEPPER, JAMES	Verification monitoring integration into IceCube Live		0.30			0.30	
2.2	Detector Operations & Mair	2.2.8	Detector Calibration	UCB	SC	WOSCHNAGG, KURT	Calibration Lead		0.10			0.10	
2.2	Detector Operations & Mair	2.2.8	Detector Calibration	UCB	GR	UCB GR	Calibration		0.10			0.10	
2.2	Detector Operations & Mair	2.2.8	Detector Calibration	UW	SC	WENDT, CHRISTOPHER	Prepare and Evaluate Flasher Calibrations Evaluate (DomCal) Calibration Runs and update Calibration constants, <i>absolute DOM sensitivity</i>	0.35				0.35	
2.2	Detector Operations & Mair	2.2.8	Detector Calibration	UW	GR	FEINTZIG, JACOB	Ice Properties		0.15			0.15	
2.2	Detector Operations & Mair	2.2.8	Detector Calibration	UW	GR	VAN SANTEN, JACOB	Calibration of DOM waveforms		0.15			0.15	
2.2	Detector Operations & Mair	2.2.8	Detector Calibration	US Total					0.35	1.10	0.15		1.60
2.2	Detector Operations & Mair	2.2.8	Detector Calibration	DESY	GR	ACHIM STOESSL	Flasher Analysis				0.20	0.20	
2.2	Detector Operations & Mair	2.2.8	Detector Calibration	Non-US Total								0.20	0.20
2.2	Detector Operations & Mair	2.2.8 Detector Calibration						0.35	1.10	0.15	0.20	1.80	

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WBS L2		WBS L3			Institution	Labor Cat.	Names	Tasks	NSF M&O Core	NSF Base Grants	U.S. IN-KIND	Non U.S. In-Kind	Grand Total				
Cat.	Description	Cat.	Description	Cat.	Description	Cat.	Description										
AD	Administration	GR	Graduate Student	PO	Postdoctoral Scientist	TE	Technician										
CS	Computer Science Eng.	KE	Key Personnel/Faculty	SC	Scientist	WO	Winterover										
EN	Engineer	MA	Management	SE	Senior Engineer												
2.2	Detector Operations & Maint	2.2.9	IceTop Operations	UD	SC	TILAV, SERAP	Coordinate IceTop Operations	1.00					1.00				
2.2	Detector Operations & Maint	2.2.9	IceTop Operations	UWRF	KE	SPICZAK, GLENN	IceTop tank Monitoring			0.03			0.03				
2.2	Detector Operations & Maint	2.2.9	IceTop Operations	US Total					1.00	0.00	0.03		1.03				
2.2	Detector Operations & Maint	2.2.9 IceTop Operations											1.00	0.00	0.03	0.00	1.03
2.2	Detector Operations & Maint	2.2.10	Supernova Operations	MAINZ	GR	KROLL, GÖSTA	SuperNova Operations					0.20	0.20				
2.2	Detector Operations & Maint	2.2.10	Supernova Operations	MAINZ	GR	EBERHARD, BENJAMIN	SuperNova Operations					0.50	0.50				
2.2	Detector Operations & Maint	2.2.10	Supernova Operations	MAINZ	GR	BAUM, VOLKER	SuperNova Operations					0.50	0.50				
2.2	Detector Operations & Maint	2.2.10	Supernova Operations	EPFL	KE	RIBORDY, MATHIEU	Development of the multi-hit detection technique					0.20	0.20				
2.2	Detector Operations & Maint	2.2.10	Supernova Operations	EPFL	PO	BRUIJN, RONALD	Development of the multi-hit detection technique					0.25	0.25				
2.2	Detector Operations & Maint	2.2.10	Supernova Operations	Non-US Total									1.65	1.65			
2.2	Detector Operations & Maint	2.2.10 Supernova Operations														1.65	1.65
2.2	Detector Operations & Maint	WBS L2 Total											12.95	2.83	0.74	4.68	21.19
2.3	Computing And Data Management	2.3.1	Core Software	UMD	GR	HELLAUER, ROBERT	Core Software		0.25				0.25				
2.3	Computing And Data Management	2.3.1	Core Software	UMD	CS	Schmidt, Torsten	Maintain Core Analysis Framework (IceTray)	0.50					0.50				
2.3	Computing And Data Management	2.3.1	Core Software	UMD	CS	Straszheim, Troy	Maintain Core Analysis Framework (IceTray)	1.00					1.00				
2.3	Computing And Data Management	2.3.1	Core Software	UMD	CS	UMD CS	Maintain Core Software Repository	0.50					0.50				
2.3	Computing And Data Management	2.3.1	Core Software	UMD	GR	MEAGHER, KEVIN	Core Software		0.50				0.50				
2.3	Computing And Data Management	2.3.1	Core Software	UW	TE	DIAZ-VELEZ, JUAN CARLOS	Simulation Programs: diplopia	0.80					0.80				
2.3	Computing And Data Management	2.3.1	Core Software	UW	TE	FADIRAN, OLADIPO	Maintain Data Processing Software	0.20					0.20				
2.3	Computing And Data Management	2.3.1	Core Software	UW	PO	KURAHASHI, NAKO	IceTray Support (Q frame)			0.15			0.15				
2.3	Computing And Data Management	2.3.1	Core Software	US Total					3.00	0.90	0.00		3.90				
2.3	Computing And Data Management	2.3.1	Core Software	RWTH	PO	BOERSMA, DAVID RWTH	Maintain Reconstruction Framework					0.10	0.10				
2.3	Computing And Data Management	2.3.1	Core Software	ULB	PO	MAROTTA, ALBERTO	Maintain and Operate Database Systems (I3OmDb)					0.20	0.20				
2.3	Computing And Data Management	2.3.1	Core Software	Non-US Total									0.30	0.30			
2.3	Computing And Data Management	2.3.1 Core Software											3.00	0.90	0.00	0.30	4.20
2.3	Computing And Data Management	2.3.2	Data Storage & Transfer	UW	TE	FADIRAN, OLADIPO	Transformation of Data for Long-Term Persistence and Archival. Maintain Data Warehouse Standards, Software (Ingest), Data Access (FTP), and Web Interface	0.20					0.20				
2.3	Computing And Data Management	2.3.2	Data Storage & Transfer	UW	TE	RICHARDS, JOHN	Maintain and Operate Data Storage Infrastructure	1.00					1.00				
2.3	Computing And Data Management	2.3.2	Data Storage & Transfer	UW	TE	Auer, Ralf	Maintain and Operate Data Storage Infrastructure	0.50					0.50				
2.3	Computing And Data Management	2.3.2	Data Storage & Transfer	UW	CS	MEADE, PATRICK	Transfer Data from S. Pole to UW Data Warehouse and Archive at S. Pole. Maintain	0.50					0.50				
2.3	Computing And Data Management	2.3.2	Data Storage & Transfer	US Total					2.20	0.00	0.00		2.20				
2.3	Computing And Data Management	2.3.2	Data Storage & Transfer	DESY	GR	SCHÖNWALD, ARNE	Data transfer UW-DESY					0.10	0.10				
2.3	Computing And Data Management	2.3.2	Data Storage & Transfer	Non-US Total									0.10	0.10			
2.3	Computing And Data Management	2.3.2 Data Storage & Transfer											2.20	0.00	0.00	0.10	2.30

IceCube M&O Staffing Matrix sort by WBS v12.0 2012.0315

WBS L2		WBS L3		Institution	Labor Cat.	Names	Tasks	NSF M&O Core	NSF Base Grants	U.S. IN-KIND	Non U.S. In-Kind	Grand Total
Cat.	Description	Cat.	Description	Cat.	Description	Cat.	Description					
AD	Administration	GR	Graduate Student	PO	Postdoctoral Scientist	TE	Technician					
CS	Computer Science Eng.	KE	Key Personnel/Faculty	SC	Scientist	WO	Winterover					
EN	Engineer	MA	Management	SE	Senior Engineer							
2.3 Computing And Data Mana	2.3.3 Computing Resources	PSU	PO	KOSKINEN, JASON	Coordination and Support for Grid and distributed computing	0.13					0.13	
2.3 Computing And Data Mana	2.3.3 Computing Resources	PSU	PO	CLARK, KEN	Coordination and Support for Grid and distributed computing	0.13					0.13	
2.3 Computing And Data Mana	2.3.3 Computing Resources	SUBR	SC	TER-ANTONYAN, SAMVEL	LONI Grid computing				0.30		0.30	
2.3 Computing And Data Mana	2.3.3 Computing Resources	UMD	TE	UMD TE	Coordination and Support for Grid and distributed computing	0.25					0.25	
2.3 Computing And Data Mana	2.3.3 Computing Resources	UW	TE	SKARLUPKA, HEATH	Maintain Core High Performance Computing Systems Coordination and Support for Grid and distributed computing	1.00					1.00	
2.3 Computing And Data Mana	2.3.3 Computing Resources	UW	TE	Barnet, Steve	Maintain Core Computing Systems, Coordination Grid & distributed computing	1.00					1.00	
2.3 Computing And Data Mana	2.3.3 Computing Resources	UW	TE	BELLINGER, JIM	Maintain Core High Performance Computing Systems	0.50					0.50	
2.3 Computing And Data Mana	2.3.3 Computing Resources	UW	TE	WISNIEWSKI, PAUL	Maintain Data Center Networking and Security	0.75					0.75	
2.3 Computing And Data Mana	2.3.3 Computing Resources	UW	TE	Auer, Ralf	Maintain Data Center Infrastructure	0.50					0.50	
US Total								4.25	0.00	0.30		4.55
2.3 Computing And Data Mana	2.3.3 Computing Resources	DESY	TE	DESY TE	European Data Center -Distributed Reconstruction Release manager , maintain Reconstruction Framework						2.00	2.00
2.3 Computing And Data Mana	2.3.3 Computing Resources	DESY	GR	JACOBI, EMANUEL							0.20	0.20
2.3 Computing And Data Mana	2.3.3 Computing Resources	DTMND	SC	PIELOTH, DAMIAN	Coordinate GRID computing in Germany						0.25	0.25
2.3 Computing And Data Mana	2.3.3 Computing Resources	SU	SC	SU SC	Computing Resources						0.40	0.40
2.3 Computing And Data Mana	2.3.3 Computing Resources	UMH	GR	KOHNEN, GEORGE	IC database management						0.30	0.30
Non-US Total											3.15	3.15
2.3 Computing And Data Mana	2.3.3 Computing Resources							4.25	0.00	0.30	3.15	7.70
2.3 Computing And Data Mana	2.3.4 Data Production Processing	UW	PO	KURAHASHI, NAOKO	Muon channel				0.20			0.20
2.3 Computing And Data Mana	2.3.4 Data Production Processing	UW	GR	SANTANDER, MARCOS	Moon Shadow online				0.15			0.15
2.3 Computing And Data Mana	2.3.4 Data Production Processing	UW	CS	MEADE, PATRICK	Unpacking, Decoding & Calibration of Raw Data (Level1); Run Common Reconstructions on UW IceCube Compute Cluster (Level2)	0.50						0.50
US Total								0.50	0.35	0.00		0.85
2.3 Computing And Data Mana	2.3.4 Data Production Processing	RWTH	GR	SCHUKRAFT, ANNE	Photonics Production						0.10	0.10
Non-US Total											0.10	0.10
2.3 Computing And Data Mana	2.3.4 Data Production Processing							0.50	0.35	0.00	0.10	0.95

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WBS L2		WBS L3		Institution	Labor Cat.	Names	Tasks	NSF M&O Core	NSF Base Grants	U.S. IN-KIND	Non U.S. In-Kind	Grand Total	
Cat.	Description	Cat.	Description	Cat.	Description	Cat.	Description						
AD	Administration	GR	Graduate Student	PO	Postdoctoral Scientist	TE	Technician						
CS	Computer Science Eng.	KE	Key Personnel/Faculty	SC	Scientist	WO	Winterover						
EN	Engineer	MA	Management	SE	Senior Engineer								
2.3 Computing And Data Mana	2.3.5 Simulation Production	LBNL	PO	GERHARDT, LISA	Simulation Production on PDSF			0.20				0.20	
2.3 Computing And Data Mana	2.3.5 Simulation Production	PSU	PO	KOSKINEN, JASON	Simulation Production			0.08				0.08	
2.3 Computing And Data Mana	2.3.5 Simulation Production	PSU	PO	CLARK, KEN	Simulation Production			0.08				0.08	
2.3 Computing And Data Mana	2.3.5 Simulation Production	UD	PO	TAMBURRO, ALESSIO	IceTop Simulation Production			0.35				0.35	
2.3 Computing And Data Mana	2.3.5 Simulation Production	UD	PO	HUSSAIN, SHAHID	IceTop Simulation Production			0.15				0.15	
2.3 Computing And Data Mana	2.3.5 Simulation Production	UMD	GR	CHRISTY, BRIAN	Simulation Production coordination			0.25				0.25	
2.3 Computing And Data Mana	2.3.5 Simulation Production	UW	SC	DESIATI, PAOLO	Coordination of Simulation Production		0.70					0.70	
2.3 Computing And Data Mana	2.3.5 Simulation Production	UW	GR	MCNALLY, FRANK	IceTop Simulation Production / Data Processing			0.30				0.30	
2.3 Computing And Data Mana	2.3.5 Simulation Production	UW	TE	FADIRAN, OLADIPO	Simulation Production Coordination; production configurations, test production and web portal.		0.60					0.60	
US Total								1.30	1.41	0.00		2.71	
2.3 Computing And Data Mana	2.3.5 Simulation Production	DESY	SC	GORA, DARIUSZ	Simulation Production Cluster						0.20	0.20	
2.3 Computing And Data Mana	2.3.5 Simulation Production	DESY	GR	DESY GR	Simulation Production Cluster						0.15	0.15	
2.3 Computing And Data Mana	2.3.5 Simulation Production	DTMND	GR	DTMD GR	Simulation Production						0.40	0.40	
2.3 Computing And Data Mana	2.3.5 Simulation Production	RWTH	PO	LAIHEM, KARIM	MonteCarlo simulations of Cherenkov light yield						0.10	0.10	
2.3 Computing And Data Mana	2.3.5 Simulation Production	RWTH	GR	PAUL, LARRISA	Simulation Production on cluster/GRID						0.30	0.30	
2.3 Computing And Data Mana	2.3.5 Simulation Production	RWTH	GR	WALLRAFF, MARIUS	Simulation Production on GPU						0.20	0.20	
2.3 Computing And Data Mana	2.3.5 Simulation Production	ULB	PO	MAROTTA, ALBERTO	Computer Cluster - simulation						0.30	0.30	
2.3 Computing And Data Mana	2.3.5 Simulation Production	VUB	PO	STRAHLER, ERIK	simulation of ice properties and DOM sensitivities						0.25	0.25	
2.3 Computing And Data Mana	2.3.5 Simulation Production	VUB	PO	MILLER, JONATHAN	Ice properties and flasher runs						0.13	0.13	
2.3 Computing And Data Mana	2.3.5 Simulation Production	ALBERTA	KE	GRANT, DARREN	WestGrid computing						0.10	0.10	
2.3 Computing And Data Mana	2.3.5 Simulation Production	ALBERTA	GR	WOOD, TANIA	WestGrid computing						0.20	0.20	
2.3 Computing And Data Mana	2.3.5 Simulation Production	WUPPERTAL	PO	KARG, TIMO	Simulation Production						0.20	0.20	
2.3 Computing And Data Mana	2.3.5 Simulation Production	WUPPERTAL	GR	WUPPERTAL GR	Simulation Production						0.20	0.20	
2.3 Computing And Data Mana	2.3.5 Simulation Production	MAINZ	GR	WIEBE, KLAUS	Simulation Production						0.10	0.10	
2.3 Computing And Data Mana	2.3.5 Simulation Production	UMH	GR	KOHNEN, GEORGE	Simulation Production						0.25	0.25	
2.3 Computing And Data Mana	2.3.5 Simulation Production	EPFL	PO	BRUIJN, RONALD	Run cluster EPFL						0.10	0.10	
2.3 Computing And Data Mana	2.3.5 Simulation Production	Non-US Total										3.18	3.18
2.3 Computing And Data Mana	2.3.5 Simulation Production	2.3.5 Simulation Production						1.30	1.41	0.00	3.18	5.89	
2.3 Computing And Data Man		WBS L2 Total						11.25	2.66	0.30	6.83	21.04	
2.4 Triggering And Filtering	2.4.1 TFT Coordination	GTECH	KE	TABOADA, IGNACIO	TFT Board Chair			0.25				0.25	
2.4 Triggering And Filtering	2.4.1 TFT Coordination	UA	KE	WILLIAMS, DAWN	TFT Board member					0.10		0.10	
2.4 Triggering And Filtering	2.4.1 TFT Coordination	UD	PO	BERGHAUS, PATRICK	TFT Board member			0.10				0.10	
2.4 Triggering And Filtering	2.4.1 TFT Coordination	UD	KE	SECKEL, DAVID	TFT Board member					0.10		0.10	
2.4 Triggering And Filtering	2.4.1 TFT Coordination	UMD	SC	BLAUFUSS, ERIK	Filter requests, bandwidth, TFT Board Member		0.30					0.30	
2.4 Triggering And Filtering	2.4.1 TFT Coordination	UMD	GR	HELLAUER, ROBERT	Prepare datasets for filter testing and common MC datasets for testing			0.20				0.20	
US Total								0.30	0.55	0.20		1.05	
2.4 Triggering And Filtering	2.4.1 TFT Coordination	ALBERTA	KE	GRANT, DARREN	TFT Board member						0.10	0.10	
2.4 Triggering And Filtering	2.4.1 TFT Coordination	BONN	PO	BOSSER, SEBASTIAN	TFT Board member						0.10	0.10	
2.4 Triggering And Filtering	2.4.1 TFT Coordination	WUPPERTAL	PO	KARG, TIMO	TFT Board member						0.10	0.10	
2.4 Triggering And Filtering	2.4.1 TFT Coordination	DPNC Genev	KE	MONTARULI, TERESA	TFT Board member						0.10	0.10	
2.4 Triggering And Filtering	2.4.1 TFT Coordination	UU	KE	HALLGREN, ALLAN	TFT Board member						0.10	0.10	
2.4 Triggering And Filtering	2.4.1 TFT Coordination	UU	KE	DE LOS HEROS, CARLOS	TFT Board member						0.10	0.10	
2.4 Triggering And Filtering	2.4.1 TFT Coordination	Non-US Total										0.60	0.60
2.4 Triggering And Filtering	2.4.1 TFT Coordination	2.4.1 TFT Coordination						0.30	0.55	0.20	0.60	1.65	

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WBS L2		WBS L3			Institution	Labor Cat.	Names	Tasks	NSF M&O Core	NSF Base Grants	U.S. IN-KIND	Non U.S. In-Kind	Grand Total
Cat.	Description	Cat.	Description	Cat.	Description	Cat.	Description						
AD	Administration	GR	Graduate Student	PO	Postdoctoral Scientist	TE	Technician						
CS	Computer Science Eng.	KE	Key Personnel/Faculty	SC	Scientist	WO	Winterover						
EN	Engineer	MA	Management	SE	Senior Engineer								
2.4 Triggering And Filtering	2.4 Triggering And Filtering	UA		GR	LARSON, MICHAEL		Track engine		0.15				0.15
2.4 Triggering And Filtering	2.4.2 Physics Filters	StonyBrook		KE	KIRYLUK, JOANNA		Cascade WG Co-Chair			0.25			0.25
2.4 Triggering And Filtering	2.4.2 Physics Filters	LBNL		KE	KLEIN, SPENCER		Diffuse WG Co-chair			0.25			0.25
2.4 Triggering And Filtering	2.4.2 Physics Filters	LBNL		PO	CHANG, HYON HA		L2 processing for IC86, studying cascade energy resolution		0.30				0.30
2.4 Triggering And Filtering	2.4.2 Physics Filters	PSU		KE	COWEN, DOUG		Hybrid/Tau WG Chair			0.25			0.25
2.4 Triggering And Filtering	2.4.2 Physics Filters	PSU		KE	DEYOUNG, TYCE		Deep Core WG - Co Chair			0.25			0.25
2.4 Triggering And Filtering	2.4.2 Physics Filters	UCB		SC	WOSCHNAGG, KURT		Diffuse / atmosnu WG Co-chair		0.10				0.10
2.4 Triggering And Filtering	2.4.2 Physics Filters	UD		PO	BERGHAUS, PATRICK		moun channel WG Co. Chair		0.25				0.25
2.4 Triggering And Filtering	2.4.2 Physics Filters	UD		PO	TAMBURRO, ALESSIO		CR-WG Co Chair		0.25				0.25
2.4 Triggering And Filtering	2.4.2 Physics Filters	UMD		SC	BLAUFUSS, ERIK		GRB WG Chair		0.25				0.25
2.4 Triggering And Filtering	2.4.2 Physics Filters	UMD		PO	WISSING, HENRIKE		EHE and Brights WG co-chair		0.25				0.25
2.4 Triggering And Filtering	2.4.2 Physics Filters	StonyBrook		PO	LESIK-BZDAK, MARIOLA		Cascade filters			0.20			0.20
2.4 Triggering And Filtering	2.4.2 Physics Filters	UW		KE	MARUYAMA, REINA		Supernova WG Co-Chair			0.15			0.15
2.4 Triggering And Filtering	2.4.2 Physics Filters	UW		KE	WESTERHOFF, STEFAN		CR-WG Co Chair			0.25			0.25
2.4 Triggering And Filtering	2.4.2 Physics Filters	UW		PO	AUFFENBERG, JAN		Online filters (EHE)		0.15				0.15
2.4 Triggering And Filtering	2.4.2 Physics Filters	UW		PO	KOPPER, CLAUDIO		Cascade filter			0.15			0.15
2.4 Triggering And Filtering	2.4.2 Physics Filters	UW		GR	WEAVER, CHRISTOPHER		Online filters		0.15				0.15
2.4 Triggering And Filtering	2.4.2 Physics Filters	UW		GR	VAN SANTEN, JACOB		Online filters / SuperDST		0.15				0.15
2.4 Triggering And Filtering	2.4.2 Physics Filters	US Total							0.00	2.00	1.75	0.00	3.75
2.4 Triggering And Filtering	2.4.2 Physics Filters	SU		GR	BOHM, CHRISTIAN		Track engine				0.10		0.10
2.4 Triggering And Filtering	2.4.2 Physics Filters	CHIBA		SC	ISHIHARA, AYA		EHE and Brights WG co-chair			0.25			0.25
2.4 Triggering And Filtering	2.4.2 Physics Filters	CHIBA		SC	ISHIHARA, AYA		EHE Filters			0.15			0.15
2.4 Triggering And Filtering	2.4.2 Physics Filters	DESY		SC	GORA, DARIUSZ		Online Filter Alerts / NToO program				0.15		0.15
2.4 Triggering And Filtering	2.4.2 Physics Filters	RWTH		PO	BOERSMA, DAVID RWTH		Gal Cen Filter & Moon Filter				0.15		0.15
2.4 Triggering And Filtering	2.4.2 Physics Filters	RWTH		GR	BISSOK, MARTIN		Gal Cen Filter				0.10		0.10
2.4 Triggering And Filtering	2.4.2 Physics Filters	RWTH		GR	RWTH GR		Development of the slow monopole trigger				0.20		0.20
2.4 Triggering And Filtering	2.4.2 Physics Filters	SU		KE	FINLEY, CHAD SU		Point Source WG Chair				0.25		0.25
2.4 Triggering And Filtering	2.4.2 Physics Filters	SU		GR	ZOLL, MARCEL		Filters and Simulations				0.15		0.15
2.4 Triggering And Filtering	2.4.2 Physics Filters	SU		GR	DANNINGER, MATTIAS		WIMP Trigger & Filter				0.10		0.10
2.4 Triggering And Filtering	2.4.2 Physics Filters	ULB		GR	ULB GR		Study of Tau Filters at South Pole				0.10		0.10
2.4 Triggering And Filtering	2.4.2 Physics Filters	UU		KE	HALLGREN, ALLAN		Online filter development				0.20		0.20
2.4 Triggering And Filtering	2.4.2 Physics Filters	UU		KE	DE LOS HEROS, CARLOS		WIMP WG Chair				0.25		0.25
2.4 Triggering And Filtering	2.4.2 Physics Filters	UU		GR	HENRIC, TAAVOLA		Online filter development & testing				0.20		0.20
2.4 Triggering And Filtering	2.4.2 Physics Filters	UU		GR	STROM, RICKARD		Online filter development & testing				0.20		0.20
2.4 Triggering And Filtering	2.4.2 Physics Filters	VUB		PO	LABARE, MATHIEU		Filter for Southern sky muons				0.25		0.25
2.4 Triggering And Filtering	2.4.2 Physics Filters	VUB		GR	KUNNEN JAN		Filter for Southern sky muons				0.50		0.50
2.4 Triggering And Filtering	2.4.2 Physics Filters	BARBADOS		KE	SEUNARINE, SURUJ		Work on cascade filter				0.15		0.15
2.4 Triggering And Filtering	2.4.2 Physics Filters	WUPPERTAL		KE	HELBING, KLAUS		Exotics- WG chair				0.25		0.25
2.4 Triggering And Filtering	2.4.2 Physics Filters	WUPPERTAL		GR	WUPPERTAL GR		New SUSY Filter				0.20		0.20
2.4 Triggering And Filtering	2.4.2 Physics Filters	DPNC Genev		KE	MONTARULI, TERESA		Online filtering				0.20		0.20
2.4 Triggering And Filtering	2.4.2 Physics Filters	DPNC Genev		PO	AGUILAR SANCHEZ JUAN A		Online filtering				0.20		0.20
2.4 Triggering And Filtering	2.4.2 Physics Filters	BONN		KE	KOWALSKI, MAREK		Cascade WG Co-Chair				0.25		0.25
2.4 Triggering And Filtering	2.4.2 Physics Filters	BONN		GR	FRANCKOWIAK, ANNA		Alert System for follow-up				0.10		0.10
2.4 Triggering And Filtering	2.4.2 Physics Filters	BONN		GR	HOMRIER, ANDREAS		Alert System for follow-up				0.10		0.10
2.4 Triggering And Filtering	2.4.2 Physics Filters	Non-US Total										4.75	4.75
2.4 Triggering And Filtering	2.4.2 Physics Filters	2.4.2 Physics Filters							0.00	2.00	1.75	4.75	8.50
2.4 Triggering And Filtering	WBS L2 Total								0.30	2.55	1.95	5.35	10.15

IceCube M&O Staffing Matrix sort by WBS v12.0 2012.0315

WBS L2		WBS L3		Institution	Labor Cat.	Names	Tasks	NSF M&O Core	NSF Base Grants	U.S. IN-KIND	Non U.S. In-Kind	Grand Total	
Cat.	Description	Cat.	Description	Cat.	Description	Cat.	Description						
AD	Administration	GR	Graduate Student	PO	Postdoctoral Scientist	TE	Technician						
CS	Computer Science Eng.	KE	Key Personnel/Faculty	SC	Scientist	WO	Winterover						
EN	Engineer	MA	Management	SE	Senior Engineer								
2.5 Data Quality, Reconstruction	2.5 Data Quality, Reconstruction & Simulation			BARBADOS	KE	SEUNARINE, SURUJ	flasher runs for inice calibration or saturation, flasher and Standard Candle runs for				0.15	0.15	
2.5 Data Quality, Reconstruction	2.5 Data Quality, Reconstruction & Simulation			Non-US Total							0.15	0.15	
2.5 Data Quality, Reconstruction	2.5 Data Quality, Reconstruction & Simulation Tools												
2.5 Data Quality, Reconstruction	2.5.1 Simulation Programs	LBNL	PO	CHANG, HYON HA	DOM simulator & calibrator			0.10				0.10	
2.5 Data Quality, Reconstruction	2.5.1 Simulation Programs	LBNL	PO	GERHARDT, LISA	Simulation Programs: cmc			0.20				0.20	
2.5 Data Quality, Reconstruction	2.5.1 Simulation Programs	SUBR	KE	FAZELY, ALI	GEANT Simulation					0.15		0.15	
2.5 Data Quality, Reconstruction	2.5.1 Simulation Programs	SUBR	KE	IMLAY, RICHARD	Simulation Programs					0.15		0.15	
2.5 Data Quality, Reconstruction	2.5.1 Simulation Programs	UA	PO	ZARZHITZKY, PAVEL	Simulation verification			0.30				0.30	
2.5 Data Quality, Reconstruction	2.5.1 Simulation Programs	UA	GR	XU, DONGLIAN	DeepCore simulation verification			0.10				0.10	
2.5 Data Quality, Reconstruction	2.5.1 Simulation Programs	UA	GR	LARSON, MICHAEL	Noise simulation			0.15				0.15	
2.5 Data Quality, Reconstruction	2.5.1 Simulation Programs	UCB	SC	WOSCHNAGG, KURT	Maintain and verify Simulation of Photon Propagation and update Ice Properties		0.50					0.50	
2.5 Data Quality, Reconstruction	2.5.1 Simulation Programs	UD	PO	HUSSAIN, SHAHID	Ice Properties Simulation			0.30				0.30	
2.5 Data Quality, Reconstruction	2.5.1 Simulation Programs	UD	GR	RUZYBAEV, BAKHTIYAR	Ice Properties Simulation			0.30				0.30	
2.5 Data Quality, Reconstruction	2.5.1 Simulation Programs	UD	GR	UD GR	Simulation Programs: sim-services			0.30				0.30	
2.5 Data Quality, Reconstruction	2.5.1 Simulation Programs	UMD	PO	OLIVAS, ALEX	Simulation Software Programs coordinator		0.40					0.40	
2.5 Data Quality, Reconstruction	2.5.1 Simulation Programs	UMD	PO	WISSING, HENRIKE	Maintain Detector Simulation (IceSim)			0.13				0.13	
2.5 Data Quality, Reconstruction	2.5.1 Simulation Programs	UMD	GR	REDL, PETER	Maintain Detector Simulation (IceSim)			0.25				0.25	
2.5 Data Quality, Reconstruction	2.5.1 Simulation Programs	UW	SC	CHIRKIN, DMITRY	Maintain and Verify Simulation of Photon Propagation and update Ice Properties		0.35					0.35	
2.5 Data Quality, Reconstruction	2.5.1 Simulation Programs	UW	SC	HOSHINA, KOTOYO	nugen maintenance		0.25					0.25	
2.5 Data Quality, Reconstruction	2.5.1 Simulation Programs	UW	PO	ABBASI, RASHA	DST data checking, sun shadow, online filter support			0.25				0.25	
2.5 Data Quality, Reconstruction	2.5.1 Simulation Programs	UW	PO	KOPPER, CLAUDIO	Direct photon propagation, Deep Core support					0.20		0.20	
2.5 Data Quality, Reconstruction	2.5.1 Simulation Programs	UW	GR	RIEDEL, BENEDICT	Supernova DAQ, simulation			0.20				0.20	
2.5 Data Quality, Reconstruction	2.5.1 Simulation Programs	UW	GR	WHITEHORN, NATHAN	Photonics tables			0.20				0.20	
2.5 Data Quality, Reconstruction	2.5.1 Simulation Programs	UW	TE	DIAZ-VELEZ, JUAN CARLOS	Maintain Simulation Production Software		0.20					0.20	
2.5 Data Quality, Reconstruction	2.5.1 Simulation Programs	US Total						1.70	2.78	0.50		4.98	
2.5 Data Quality, Reconstruction	2.5.1 Simulation Programs	DTMND	GR	MILKE, NATALIE	Simulation Programs: noise-generator						0.20	0.20	
2.5 Data Quality, Reconstruction	2.5.1 Simulation Programs	SU	KE	HULTQVIST, KLAS	Simulation Work						0.10	0.10	
2.5 Data Quality, Reconstruction	2.5.1 Simulation Programs	SU	GR	FLIS, SAMUEL	DOM simulation						0.15	0.15	
2.5 Data Quality, Reconstruction	2.5.1 Simulation Programs	UOX	KE	SARKAR, SUBIR	Yellow Book-maintenance						0.10	0.10	
2.5 Data Quality, Reconstruction	2.5.1 Simulation Programs	GENT	SC	UGENT SC	Support IceTop Simulations, IceTop Calibrations, IceTop Reconstruction						0.10	0.10	
2.5 Data Quality, Reconstruction	2.5.1 Simulation Programs	GENT	GR	UGENT GR	Support IceTop Simulations, IceTop Calibrations, IceTop Reconstruction						0.40	0.40	
2.5 Data Quality, Reconstruction	2.5.1 Simulation Programs	BOCHUM	KE	BECKER, JULIA	Update MMC from Java to C++						0.10	0.10	
2.5 Data Quality, Reconstruction	2.5.1 Simulation Programs	BOCHUM	GR	FEDYNITCH, ANATOLI	Update MMC from Java to C++						0.10	0.10	
2.5 Data Quality, Reconstruction	2.5.1 Simulation Programs	BOCHUM	GR	OLIVO, MARTINO	Monte Carlo Validation						0.10	0.10	
2.5 Data Quality, Reconstruction	2.5.1 Simulation Programs	RWTH	GR	BLUMENTHAL, JAN	Photonics Production						0.15	0.15	
2.5 Data Quality, Reconstruction	2.5.1 Simulation Programs	EPFL	KE	RIBORDY, MATHIEU	Supernova detector (extension) responses						0.10	0.10	
2.5 Data Quality, Reconstruction	2.5.1 Simulation Programs	EPFL	PO	BRIUJN, RONALD	Supernova detector (extension) responses						0.20	0.20	
2.5 Data Quality, Reconstruction	2.5.1 Simulation Programs	Non-US Total										1.80	1.80
2.5 Data Quality, Reconstruction	2.5.1 Simulation Programs												
								1.70	2.78	0.50	1.80	6.78	

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WBS L2		WBS L3			Institution	Labor Cat.	Names	Tasks	NSF M&O Core	NSF Base Grants	U.S. IN-KIND	Non U.S. In-Kind	Grand Total
Cat.	Description	Cat.	Description	Cat.	Description	Cat.	Description						
AD	Administration	GR	Graduate Student	PO	Postdoctoral Scientist	TE	Technician						
CS	Computer Science Eng.	KE	Key Personnel/Faculty	SC	Scientist	WO	Winterover						
EN	Engineer	MA	Management	SE	Senior Engineer								
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	LBNL	GR	MIARECKI, SANDRA		Algorithm for measuring muon energy			0.30				0.30
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	PSU	PO	KOSKINEN, JASON		Integrating the GENIE Monte Carlo software into IceCube software			0.20				0.10
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	PSU	GR	DUNKMAN, MATT		develop starting track reconstruction - hybrid reco.			0.50				0.50
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	SUBR	KE	FAZELY, ALI		Reconstruction/ Analysis tools				0.15			0.15
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	SUBR	KE	IMLAY, RICHARD		Reconstruction/ Analysis tools				0.15			0.15
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	UA	GR	XU, DONGLIAN		Improvements to low energy analysis framework			0.10				0.10
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	UAA	KE	RAWLINS, KATHERINE		flat-ntuple; muon-bundle-reco; Snow correction for IceTop				0.30			0.30
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	UMD	PO	WISSING, HENRIKE		develop & test reconstruction			0.13				0.13
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	UMD	GR	REDL, PETER		Reconstruction/ Analysis tools			0.25				0.25
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	StonyBrook	PO	LESIK-BZDAK, MARIOLA		Flashers and Standard Candle				0.10			0.10
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	StonyBrook	PO	LESIK-BZDAK, MARIOLA		BadDomList software maintenance				0.10			0.10
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	UW	SC	CHIRKIN, DMITRY		Direct photon tracking / iceproperties calibration; FE/pulse extractor; reco S/W			0.30				0.30
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	UW	PO	AUFFENBERG, JAN		Energy Reconstruction			0.15				0.15
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	UW	GR	GLADSTONE, LAURA		Reconstruction tools-Deep Core			0.15				0.15
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	UW	GR	FEINTZIG, JACOB		Event reconstruction (spline fits)			0.15				0.15
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	UW	GR	VAN SANTEN, JACOB		Cascades			0.15				0.15
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	UW	GR	WHITEHORN, NATHAN		Energy Reconstruction			0.15				0.15
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	UWRF	KE	MADSEN, JIM		Cosmic ray shower simulations and reconstruction				0.10			0.10
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	US Total						0.00	2.53	0.90			3.43
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	ADELAIDE	KE	HILL, GARY		Event energy and direction reconstruction, millipede					0.40		0.40
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	ADELAIDE	GR	AARTSEN, MARK		Event energy and direction reconstruction, millipede					0.50		0.50
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	CHIBA	KE	YOSHIDA, SHIGERU		Maintain Romeo, EHE Simulations, Calibration using Standard Candles					0.20		0.20
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	CHIBA	SC	KEIICHI MASE		Maintain Romeo, EHE Simulations, Maintain reconstruction projects (Portia), MC/Data comparison for EHE-filtered and IceTop events, Standard Candle Analysis					0.20		0.20
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	CHIBA	GR	CHIBA GR		Improve the Ice Model, Afterpulse Simulator, Standard Candle Analysis, Maintain reconstruction projects (Ophelia, ehe-star)					0.20		0.20

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WBS L2		WBS L3			Institution	Labor Cat.	Names	Tasks	NSF M&O Core	NSF Base Grants	U.S. IN-KIND	Non U.S. In-Kind	Grand Total
Cat.	Description	Cat.	Description	Cat.	Description	Cat.	Description						
AD	Administration	GR	Graduate Student	PO	Postdoctoral Scientist	TE	Technician						
CS	Computer Science Eng.	KE	Key Personnel/Faculty	SC	Scientist	WO	Winterover						
EN	Engineer	MA	Management	SE	Senior Engineer								
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	DESY	GR	SCHÖNWALD, ARNE	Cascade Reconstruction						0.10	0.10	
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	DESY	GR	MIDDELL, EIKE	Cascade Reconstruction						0.20	0.20	
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	RWTH	PO	BOERSMA, DAVID RWTH	Reconstruction Coordinator						0.15	0.15	
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	RWTH	PO	BOERSMA, DAVID RWTH	Development of Photospline tables						0.10	0.10	
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	RWTH	GR	BLUMENTHAL, JAN	Gal Cen Filter, Data processing						0.10	0.10	
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	RWTH	GR	EULER, SEBASTIAN	Finite track reconstruction						0.10	0.10	
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	RWTH	GR	VEHRING, MARKUS	Finite track reconstruction						0.15	0.15	
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	SU	GR	FLIS, SAMUEL	Energy Reconstruction						0.10	0.10	
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	SU	GR	WOLF, MARTIN	Truncated Mean, EventViewer, cluster tool						0.20	0.20	
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	VUB	KE	VAN EIJDHOVEN, NICK	development of reconstruction tools (IcePack framework)						0.25	0.25	
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	VUB	PO	BOSE, DEBANJAN	muon track reconstruction in IceCube and DeepCore, waveform feature extractor						0.25	0.25	
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	VUB	PO	LABARE, MATHIEU	muon track reconstruction in IceCube and DeepCore						0.13	0.13	
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	VUB	GR	CASIER MARTIN	muon track reconstruction in IceCube and DeepCore						0.50	0.50	
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	VUB	GR	BRAYEUR LIONEL	muon track reconstruction in IceCube and DeepCore						0.50	0.50	
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	ALBERTA	KE	GRANT, DARREN	Maintenance of IceCube-Photonics interface						0.10	0.10	
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	WUPPERTAL	GR	WUPPERTAL GR	New SUSY Reconstruction, Simulation, Propagation, Monopole, Photonics						0.50	0.50	
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	MAINZ	GR	SCHATTO, KAI	PPC based tables Muon reconstruction						0.40	0.40	
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	MAINZ	GR	WIEBE, KLAUS	Angular res. Cascades						0.20	0.20	
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	HUMBOLDT	KE	KOLANOSKI, HERMANN	Reconstruction/ Analysis tools						0.10	0.10	
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	HUMBOLDT	GR	ALTMANN, DAVID	Improving the track reconstruction.						0.15	0.15	
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	BONN	GR	UBONN GR	Reconstruction/ Analysis tools						0.20	0.20	
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	BONN	GR	PANKNIN, SEBASTIAN	IC-40 L3 processing						0.20	0.20	
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools	Non-US Total										6.18	6.18
2.5 Data Quality, Reconstruction Tools	2.5.2 Reconstruction/ Analysis Tools							0.00	2.53	0.90	6.18	9.60	

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Cat.	Description	Cat.	Description	Cat.	Description	Cat.	Description									
AD	Administration	GR	Graduate Student	PO	Postdoctoral Scientist	TE	Technician									
CS	Computer Science Eng.	KE	Key Personnel/Faculty	SC	Scientist	WO	Winterover									
EN	Engineer	MA	Management	SE	Senior Engineer											
2.5 Data Quality, Reconstructio	2.5.3 Data Quality			UA	KE	TOALE, PATRICK	Data Quality Lead			0.15		0.15				
2.5 Data Quality, Reconstructio	2.5.3 Data Quality			US Total								0.00	0.00	0.15	0.15	
2.5 Data Quality, Reconstructio	2.5.3 Data Quality			Munchen	PO	MPI PO	Data Quality & DeepCore				0.60	0.60				
2.5 Data Quality, Reconstructio	2.5.3 Data Quality			DPNC Genev	KE	MONTARULI, TERESA	Data Quality monitoring				0.10	0.10				
2.5 Data Quality, Reconstructio	2.5.3 Data Quality			DPNC Genev	PO	AGUILAR SANCHEZ JUAN A	Data and Simulation Quality				0.20	0.20				
2.5 Data Quality, Reconstructio	2.5.3 Data Quality			VUB	KE	VAN EIJDHOVEN, NICK	data quality verification				0.25	0.25				
2.5 Data Quality, Reconstructio	2.5.3 Data Quality			VUB	PO	STRAHLER, ERIK	verification Deep Core data quality				0.25	0.25				
2.5 Data Quality, Reconstructio	2.5.3 Data Quality			VUB	PO	BOSE, DEBANJAN	verification Deep Core data quality				0.25	0.25				
2.5 Data Quality, Reconstructio	2.5.3 Data Quality			VUB	PO	LABARE, MATHIEU	verification Deep Core data quality				0.13	0.13				
2.5 Data Quality, Reconstructio	2.5.3 Data Quality			VUB	PO	MILLER, JONATHAN	WIMP analysis				0.38	0.38				
2.5 Data Quality, Reconstructio	2.5.3 Data Quality			Non-US Total										2.15	2.15	
2.5 Data Quality, Reconstructio	2.5.3 Data Quality											0.00	0.00	0.15	2.15	2.30
2.5 Data Quality, Reconstructio	2.5.4 Offline Data Processing			UW	PO	AUFFENBERG, JAN	Offline Data Processing - EHE		0.15			0.15				
2.5 Data Quality, Reconstructio	2.5.4 Offline Data Processing			UW	PO	KOPPER, CLAUDIO	L2 processing support			0.20		0.20				
2.5 Data Quality, Reconstructio	2.5.4 Offline Data Processing			UW	PO	KURAHASHI, NAOKO	Offline Level 2 Processing		0.20			0.20				
2.5 Data Quality, Reconstructio	2.5.4 Offline Data Processing			UW	GR	FEINTZIG, JACOB	L2 processing, muon stream			0.20		0.20				
2.5 Data Quality, Reconstructio	2.5.4 Offline Data Processing			US Total								0.00	0.55	0.20	0.75	
2.5 Data Quality, Reconstructio	2.5.4 Offline Data Processing			RWTH	GR	RWTH GR	Development of processing scripts for L2/L1 processing				0.20	0.20				
2.5 Data Quality, Reconstructio	2.5.4 Offline Data Processing			Non-US Total										0.20	0.20	
2.5 Data Quality, Reconstructio	2.5.4 Offline Data Processing											0.00	0.55	0.20	0.20	0.95
2.5 Data Quality, Reconstructio	2.5.4 Offline Data Processing											1.70	5.85	1.75	10.48	19.78
2.5 Data Quality, Reconstructio	2.5.4 Offline Data Processing			WBS L2 Total								1.70	5.85	1.75	10.48	19.78
Grand Total								32.42	14.49	7.35	31.30	85.55				