

**IceCube M&O Staffing Matrix sort by Institutions v8.3 2010.0518.xls**

Institution	Labor Cat.	Names		WBS L3		Tasks		Funds Source	WBS 2.1	WBS 2.2	WBS 2.3	WBS 2.4	WBS 2.5	Grand Total	
									Program Management	Detector Maintenance & Operations	Computing & Data Management	Triggering & Filtering	Data Quality, Reconstruction & Simulation Tools		
									Cat.	Description	Cat.	Description	Cat.		Description
CAU	KE	Japaridze, George		Detector Monitoring		Monitoring shifts		US Institutional Support		0.02				0.02	
		Japaridze, George Total								0.02				0.02	
<b>CAU Total</b>										<b>0.02</b>				<b>0.02</b>	
GTECH	KE	TABOADA, IGNACIO		Administration		Chair of speakers' committee		US Institutional Support	0.25					0.25	
		TABOADA, IGNACIO Total							0.25					0.25	
	PO	Tepe, Andreas		Simulation Production		Simulation Production		US Base Grants			0.20			0.20	
		Tepe, Andreas Total									0.20			0.20	
	GR	GTECH GR		Detector Monitoring		Monitoring shifts		US Base Grants		0.03				0.03	
		GTECH GR Total								0.03				0.03	
		Daughhete, Jacob		Detector Calibration		Standard Candle Vertex and Energy Calibration		US Base Grants		0.20				0.20	
		Daughhete, Jacob Total								0.20				0.20	
<b>GTECH Total</b>									<b>0.25</b>	<b>0.23</b>	<b>0.20</b>			<b>0.68</b>	
KU	KE	Besson, Dave		Detector Monitoring		Monitoring shifts		US Institutional Support		0.02				0.02	
				Engineering and R&D Support		EMI - Radio R&D		US Institutional Support	0.10					0.10	
	Besson, Dave Total							0.10	0.02				0.12		
<b>KU Total</b>									<b>0.10</b>	<b>0.02</b>				<b>0.12</b>	
LBNL	KE	KLEIN, SPENCER		Administration		Supervise LBNL effort		NSF M&O Core	0.05					0.05	
						Publications Comm. Member		US Institutional Support	0.10					0.10	
				Physics Filters		Co. Chair of Cascade WG		US Institutional Support				0.25		0.25	
				Reconstruction/ Analysis tools		co-chair of Diffuse WG		US Institutional Support					0.25	0.25	
	KLEIN, SPENCER Total							0.15			0.25	0.25		0.65	
			NYGREN, DAVID R		DETECTOR OPERATIONS & MAINTENANCE		Track Engine Trigger		US Institutional Support		0.10				0.10
			NYGREN, DAVID R Total								0.10				0.10
	SC	KIRYLUK, JOANNA	Detector Calibration		Flasher Runs		US Base Grants		US Base Grants	0.10					0.10
			Detector Monitoring		BadDomList		US Base Grants		US Base Grants	0.20					0.20
			Simulation Production		Simulation Production on PDSF		US Base Grants		US Base Grants			0.20			0.20
KIRYLUK, JOANNA Total									0.30	0.20			0.50		
PO	BUTTIN, STIJN	Simulation Programs		DOM simulator & calibrator		US Base Grants						0.35		0.35	
		BUTTIN, STIJN Total										0.35		0.35	
	GERHARDT, LISA	Simulation Programs		Simulation Programs: cmc		US Base Grants						0.20		0.20	
		GERHARDT, LISA Total										0.20		0.20	
LBNL PO		Detector Monitoring		Monitoring shifts		US Base Grants			0.09				0.09		
LBNL PO Total										0.09	0.00			0.09	
CS	BEATTIE, KEITH S	Data Acquisition		Maintain DAQ Software Systems (incl. triggers, DOM SW, etc. up to Event Builder)		NSF M&O Core			0.25					0.25	
		BEATTIE, KEITH S Total							0.25					0.25	
EN	STEZELBERGER, THORSTEN	Data Acquisition		Maintain DAQ Hardware (Hubs, DOR, Clocks, GPS,...)		NSF M&O Core			0.15					0.15	
		STEZELBERGER, THORSTEN Total							0.15					0.15	
<b>LBNL Total</b>									<b>0.15</b>	<b>0.89</b>	<b>0.20</b>	<b>0.25</b>	<b>0.80</b>	<b>2.29</b>	
OSU	PO	OSU PO		Detector Monitoring		Monitoring shifts		US Base Grants		0.02				0.02	
				Education & Outreach		Outreach		US Base Grants	0.05					0.05	
		OSU PO Total							0.05	0.02				0.07	
	ROTT, CARSTEN	Data Quality		Data Quality		US Base Grants						0.10		0.10	
		Detector Monitoring		Maintain good run list		US Base Grants				0.20				0.20	
	ROTT, CARSTEN Total								0.20			0.10		0.30	
GR	Davis, James	Detector Monitoring		Monitoring shifts		US Base Grants			0.01					0.01	
		Physics Filters		Vertical Events Filter		US Base Grants						0.15		0.15	
Davis, James Total									0.01		0.15		0.16		
<b>OSU Total</b>									<b>0.05</b>	<b>0.23</b>	<b>0.15</b>	<b>0.10</b>	<b>0.53</b>		
PSU	KE	COWEN, DOUG		Administration		ExecCom member		US Institutional Support	0.20					0.20	
				Education & Outreach		Education & Outreach		US Institutional Support	0.05					0.05	
				Physics Filters		Hybrid/Tau WG Chair		US Institutional Support				0.25		0.25	
				TFT Coordination		TFT Board member		US Institutional Support				0.10		0.10	
		COWEN, DOUG Total							0.25			0.35			0.60
	DEYOUNG, TYCE	Education & Outreach		Education & Outreach		US Institutional Support		US Institutional Support	0.05					0.05	
		Physics Filters		Deep Core WG - Co Chair		US Institutional Support						0.25		0.25	
	DEYOUNG, TYCE Total							0.05			0.25			0.30	
	PO	KOSKINEN, JASON	Physics Filters		develop and verify Deep Core filters		US Base Grants						0.18		0.18
			Reconstruction/ Analysis tools		Coordinate Deep Core reconstruction for production		US Base Grants						0.12		0.12
		KOSKINEN, JASON Total										0.18	0.12	0.30	
		LAFEBRE, SVEN	Detector Monitoring		Monitoring shifts		US Base Grants			0.03					0.03
	Reconstruction/ Analysis tools		develop starting track reconstruction		US Base Grants						0.19		0.19		
	LAFEBRE, SVEN Total								0.03			0.19		0.22	
	PSU PO	Computing Resources		Coordination and Support for Grid and distributed computing		NSF M&O Core					0.25				0.25
Simulation Production		Simulation Production		US Base Grants					0.17				0.17		
PSU PO Total									0.42					0.42	
TOALE, PATRICK	Administration		Software Coordinator		NSF M&O Core			0.38						0.38	
	Simulation Programs		maintain tau simulation tools		MRE Pre Operations			0.38						0.38	
TOALE, PATRICK Total												0.10		0.10	
							0.75					0.10		0.85	
GR	PSU GR	Detector Monitoring		Monitoring shifts		US Base Grants			0.03					0.03	
		PSU GR Total							0.03					0.03	
	HA, CHANG Hyon	Reconstruction/ Analysis tools		develop starting track reconstruction		US Base Grants						0.13		0.13	
HA, CHANG Hyon Total										0.13			0.13		
<b>PSU Total</b>									<b>1.05</b>	<b>0.06</b>	<b>0.42</b>	<b>0.78</b>	<b>0.53</b>	<b>2.83</b>	

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Institution	Labor Cat.	Names	WBS L3		Tasks		Funds Source	WBS 2.1 Program Management	WBS 2.2 Detector Maintenance & Operations	WBS 2.3 Computing & Data Management	WBS 2.4 Triggering & Filtering	WBS 2.5 Data Quality, Reconstruction & Simulation Tools	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
SUBR	KE	FAZELY, ALI	Reconstruction/ Analysis tools	Reconstruction/ Analysis tools	US Institutional Support							0.15	0.15								
			Simulation Programs	GEANT Simulation	US Institutional Support								0.15	0.15							
		FAZELY, ALI Total											0.30	0.30							
		Imlay, Richard	Reconstruction/ Analysis tools	Reconstruction/ Analysis tools	US Institutional Support									0.15	0.15						
			Simulation Programs	Simulation Programs	US Institutional Support									0.15	0.15						
	Imlay, Richard Total												0.30	0.30							
	SC	TER-ANTONYAN, SAM	Computing Resources	LONI Grid computing	US Institutional Support			0.30						0.30							
			Detector Monitoring	Detector Monitoring	US Institutional Support			0.02						0.02							
		TER-ANTONYAN, SAMVEL Total							0.02	0.30				0.32							
	<b>SUBR Total</b>								<b>0.02</b>	<b>0.30</b>			<b>0.60</b>	<b>0.92</b>							
UA	KE	Williams, Dawn	Data Quality	Data Quality Lead	US Institutional Support							0.15	0.15								
			Detector Calibration	managing flasher runs and other calibrations (stage 2 geometry)	US Institutional Support									0.15							
		Williams, Dawn Total							0.15					0.30							
	PO	Zarhitzky, Pavel	Detector Calibration	taking flasher runs	US Base Grants			0.20						0.20							
			Simulation Programs	Simulation verification	US Base Grants								0.30	0.30							
	Zarhitzky, Pavel Total							0.20					0.50								
	GR	Xu, Donglian	Detector Calibration	geometry systematic	US Base Grants			0.25						0.25							
			Detector Monitoring	Monitoring shifts	US Base Grants			0.03						0.03							
Xu, Donglian Total							0.28					0.28									
<b>UA Total</b>								<b>0.63</b>			<b>0.45</b>	<b>1.08</b>									
UAA	KE	Rawlins, Katherine	Detector Monitoring	Monitoring shifts	US Institutional Support			0.02					0.02								
			Simulation Programs	SPASE / IceTop simulation; flat n-tuple	US Institutional Support								0.40	0.40							
	Rawlins, Katherine Total							0.02					0.40								
<b>UAA Total</b>								<b>0.02</b>			<b>0.40</b>	<b>0.42</b>									
UCB	KE	PRICE, BUFORD	Administration	Education & Outreach	US Institutional Support		0.10						0.10								
			PRICE, BUFORD Total						0.10					0.10							
	SC	FILIMONOV, KIRILL	Detector Monitoring	Coordinate Monitoring	US Base Grants			0.50						0.50							
			FILIMONOV, KIRILL Total						0.50					0.50							
		UCB SC	Detector Monitoring	Monitoring shifts	US Base Grants			0.02						0.02							
	UCB SC Total							0.02					0.02								
	WOSCHNAGG, KURT	Administration	Speakers Comm member	US Base Grants			0.10							0.10							
		Detector Calibration	Calibration Lead	US Base Grants			0.15							0.15							
		Physics Filters	Diffuse / atmosnu WG chair	US Base Grants					0.25					0.25							
		Simulation Programs	Maintain and Verify Simulation of Photon Propagation and update Ice Properties	NSF M&O Core									0.50	0.50							
	WOSCHNAGG, KURT Total						0.10	0.15		0.25	0.50		1.00								
	GR	UCB GR	Detector Calibration	Calibration	US Base Grants			0.10						0.10							
			Detector Monitoring	Monitoring shifts	US Base Grants			0.02						0.02							
UCB GR Total							0.12					0.12									
<b>UCB Total</b>								<b>0.20</b>	<b>0.78</b>		<b>0.25</b>	<b>0.50</b>	<b>1.73</b>								
UCI	PO	Silverstri, Andrea	Detector Monitoring	Monitoring shifts	US Base Grants			0.01					0.01								
			Silverstri, Andrea Total						0.01					0.01							
	GR	Hanson, Jordan	Detector Monitoring	Monitoring shifts	US Base Grants			0.01					0.01								
			Hanson, Jordan Total						0.01					0.01							
<b>UCI Total</b>								<b>0.02</b>			<b>0.02</b>	<b>0.02</b>									
UD	KE	GAISSER, TOM	Administration	Spokesperson	US Institutional Support		0.30						0.30								
			GAISSER, TOM Total						0.30					0.30							
		SECKEL, DAVID	TFT Coordination	TFT Board member	US Institutional Support						0.10			0.10							
			SECKEL, DAVID Total								0.10			0.10							
		UD KE Total							0.05					0.05							
	SC	UD SC	IceTop Operations	Coordinate IceTop Operations	NSF M&O Core			1.00						1.00							
			UD SC Total						1.00					1.00							
		PO	BERGHAUS, PATRICK	Physics Filters	moun channel WG Co. Chair	US Base Grants					0.25				0.25						
	BERGHAUS, PATRICK - UD Total								0.25				0.25								
	Hussain, Shahid		Simulation Production	IceTop Simulation Production	US Base Grants			0.15						0.15							
			Simulation Programs	Ice Properties Simulation	US Base Grants								0.30	0.30							
	Hussain, Shahid Total						0.15					0.30	0.45								
	Kuwabara, Takao	Detector Monitoring	Temp. & Pressure atmospheric monitoring		US Base Grants			0.25						0.25							
			Kuwabara, Takao Total					0.25						0.25							
	GR	Ruzybaev , Bakhtiyar	Simulation Programs	Ice Properties Simulation	US Base Grants								0.30	0.30							
			Ruzybaev , Bakhtiyar Total											0.30							
		Xu, Chen	Simulation Programs	Simulation Programs: sim-services		US Base Grants								0.30							
				Xu, Chen Total											0.30						
	<b>UD Total</b>								<b>0.30</b>	<b>1.30</b>	<b>0.15</b>	<b>0.35</b>	<b>0.90</b>	<b>3.00</b>							
	UMD	KE	HOFFMAN, KARA	Engineering and R&D Support	Detector R&D	US Institutional Support		0.20						0.20							
HOFFMAN, KARA Total								0.20					0.20								
Sullivan, Greg			Administration	ExecCom member		US Institutional Support		0.20						0.20							
				Sullivan, Greg Total						0.20					0.20						
UMD KE Total							0.10						0.10								
SC		BLAUFUSS, ERIK	Core Software	Core Software	US Base Grants				0.00					0.00							
			Online Filter (PnF)	Maintain PnF Software and Online Filters	NSF M&O Core			0.20						0.20							
			Physics Filters	GRB WG Chair	US Base Grants					0.25				0.25							
			TFT Coordination	Coordinate process for filter requests, bandwidth	NSF M&O Core					0.30				0.30							
		BLAUFUSS, ERIK Total						0.20	0.00	0.55				0.75							
		SCHMIDT, TORSTEN	Core Software	Maintain Core Analysis Framework (IceTray)		NSF M&O Core			0.50						0.50						
				Online Filter (PnF)	Maintain PnF Software and Online Filters	NSF M&O Core			0.25						0.25						
		SCHMIDT, TORSTEN Total						0.25	0.50					0.75							

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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									
UMD	PO	OLIVAS, ALEX	Administration	Pubcom member	US Base Grants	0.10							0.10					
			Physics Filters	exotics- WG chair	US Base Grants				0.25				0.25					
			Simulation Programs	Simulation Software Programs coordinator	NSF M&O Core							0.40	0.40					
		OLIVAS, ALEX Total						0.10			0.25	0.40	0.75					
		UMD PO	Detector Monitoring	Monitoring shifts	US Base Grants				0.03					0.03				
		UMD PO Total							0.03					0.03				
		Wissing, Henrike	Administration	Pubcom member	US Base Grants	0.10									0.10			
			Reconstruction/ Analysis tools	develop & test reconstruction	US Base Grants								0.25		0.25			
			Simulation Programs	Maintain Detector Simulation (IceSim)	US Base Grants								0.25		0.25			
		Wissing, Henrike Total						0.10					0.50		0.60			
		GR	CHRISTY, BRIAN	Simulation Production	Simulation Production coordination	US Base Grants					0.25				0.25			
				CHRISTY, BRIAN Total							0.25				0.25			
				Ehrlich, Ralf	Core Software	Core Software	US Base Grants					0.50				0.50		
			Ehrlich, Ralf Total								0.50				0.50			
			REDL, PETER	Online Filter (PnF)	Online Filter Testing	US Base Grants					0.25					0.25		
	Reconstruction/ Analysis tools			Reconstruction/ Analysis tools	US Base Grants								0.25		0.25			
	Simulation Programs			Maintain Detector Simulation (IceSim)	US Base Grants								0.25		0.25			
	REDL, PETER Total								0.25			0.50		0.75				
	UMD GR		Core Software	Core Software	US Base Grants						0.25				0.25			
			Detector Monitoring	Monitoring shifts	US Base Grants					0.06					0.06			
			TFT Coordination	Prepare datasets for filter testing and common MC datasets for testing	US Base Grants							0.20			0.20			
	UMD GR Total								0.06	0.25	0.20			0.51				
	UMD CS		Core Software	Maintain Core Software Repository	NSF M&O Core						0.25				0.25			
			UMD CS Total								0.25				0.25			
	TE		STRASZHEIM, TROY	Core Software	> 1 FTE	NSF M&O Core									0.88			
				Maintain Core Analysis Framework (IceTray)	NSF M&O Core					0.88				0.88				
		STRASZHEIM, TROY Total								0.88				0.88				
	UMD TE	Computing Resources	Coordination and Support for Grid and distributed computing	NSF M&O Core					0.25					0.25				
	UMD TE Total									0.25				0.25				
	<b>UMD Total</b>								<b>0.70</b>	<b>0.79</b>	<b>2.88</b>	<b>1.00</b>	<b>1.40</b>	<b>6.77</b>				
	UW	KE	HALZEN, FRANCIS	Administration	Principle Investigator	NSF M&O Core	0.08							0.08				
						US Institutional Support	0.33							0.33				
				HALZEN, FRANCIS Total					0.42						0.42			
			KARLE, ALBRECHT	Administration	Associate Director for Science	NSF M&O Core	0.08								0.08			
						US Institutional Support	0.33								0.33			
				KARLE, ALBRECHT Total					0.42						0.42			
			MONTARULI, TERESA	TFT Coordination	TFT Board member	US Institutional Support						0.10			0.10			
			MONTARULI, TERESA Total									0.10			0.10			
			WESTERHOFF, STEFAN	Administration	Pubcom member	US Institutional Support	0.10								0.10			
			WESTERHOFF, STEFAN Total					0.10							0.10			
			SC	CHIRKIN, DMITRY	Reconstruction/ Analysis tools	Direct photon tracking / iceproperties calibration 0.3 ; FE/pulse extractor 0.1 ; reco software 0.1	US Base Grants							0.30		0.30		
					Simulation Programs	Simulation Programs: mmc/mmc-icetray and ucr-icetray	US Base Grants							0.20		0.20		
					CHIRKIN, DMITRY Total										0.50		0.50	
				DESIATI, PAOLO	Simulation Production	Coordination of Simulation Production	NSF M&O Core					0.70				0.70		
				DESIATI, PAOLO Total								0.70				0.70		
HANSON, KAEL		Run Coordination		Left UW	NSF M&O Core													
HANSON, KAEL Total																		
HILL, GARY		Administration		Weekly call, ICC support	US Base Grants	0.20									0.20			
		Offline Data Processing		Offline processing	NSF M&O Core								0.25		0.25			
		Simulation Programs		Maintain and Verify Simulation of Photon Propagation and update Ice Properties	NSF M&O Core								0.25		0.25			
HILL, GARY Total						0.20						0.50		0.70				
KRASBERG, MARK		Data Acquisition		DOM Cal Maintenance, DOM Monitoring snd Troubleshooting	NSF M&O Core					0.35					0.35			
				Provide Real-time System Monitoring and Paging	NSF M&O Core					0.20					0.20			
		Run Coordination		Winterovers coordinator	NSF M&O Core					0.25		0.80			0.25			
KRASBERG, MARK Total									0.80					0.80				
LANDSMAN, YAEL HAGAR		Engineering and R&D Support	Science Support	NSF M&O Core	0.25									0.25				
LANDSMAN, YAEL HAGAR Total					0.25								0.25					
MARUYAMA, REINA		Physics Filters	Supernova WG Chair	US Base Grants								0.25		0.25				
MARUYAMA, REINA Total											0.25		0.25					
WENDT, CHRISTOPHER		Data Acquisition	DOM CAL Maintenance	NSF M&O Core					0.25					0.25				
		Detector Calibration	Prepare and Evaluate Flasher Calibrations 0.25 Evaluate (DomCal) Calibration Runs and update Calibration constants 0.1	NSF M&O Core					0.28					0.28				
WENDT, CHRISTOPHER Total								0.53					0.53					
PO		ABBASI, RASHA	Simulation Programs	DST data checking	US Base Grants								0.10	0.10				
			ABBASI, RASHA Total										0.10	0.10				
		Aguilar Sanchez Juan Antd	Physics Filters	muon filter	US Base Grants							0.15		0.15				
			Simulation Programs	low level moun data verification (data/mc)	US Base Grants								0.10	0.10				
		Aguilar Sanchez Juan Antonio Total										0.15	0.10	0.25				
		HOSHINA, K	Simulation Production	Photon prop. Calibration	US Base Grants					0.10				0.10				
		HOSHINA, K Total								0.10				0.10				
		Toscano, Simona	Data Production Processing	Cascade data processing	US Base Grants						0.35				0.35			
			Physics Filters	Cascade Online filter	US Base Grants								0.15		0.15			
		Toscano, Simona Total									0.35	0.15			0.50			



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							Program Management	Detector Maintenance & Operations	Computing & Data Management	Triggering & Filtering	Data Quality, Reconstruction & Simulation Tools	
							Cat.	Description	Cat.	Description	Cat.	
		UW AD	Administration	Administrative Support		NSF M&O Core	0.50					0.50
			Education & Outreach	Host Spring collaboration meeting		US Institutional Support	0.50					0.50
				Teachers		NSF M&O Core	0.25					0.25
		<b>UW AD Total</b>					<b>1.25</b>					<b>1.25</b>
	TE	DIAZ-VELEZ, JUAN CA	Core Software	Maintain Simulation Production Software		NSF M&O Core			0.00			0.00
				Simulation Programs: diploia		NSF M&O Core			0.80			0.80
			Simulation Programs	Maintain Simulation Production Software		NSF M&O Core					0.20	0.20
		<b>DIAZ-VELEZ, JUAN CARLOS Total</b>						<b>0.80</b>	<b>0.20</b>			<b>1.00</b>
		FADIRAN, OLADIPO	Core Software	Maintain Data Processing Software		NSF M&O Core			0.20			0.20
			Data Storage & Transfer	Transformation of Data for Long-Term Persistence and Archival, e.g., HDF5 Maintain Data Warehouse Standards, Software (Ingest), Data Access (FTP), and Web Interface		NSF M&O Core			0.20			0.20
			Simulation Production	0.30 Coordination of Simulation Production 0.30 Maintain production configurations, manage test production and maintain web portal.		NSF M&O Core			0.60			0.60
		<b>FADIRAN, OLADIPO Total</b>						<b>1.00</b>				<b>1.00</b>
		MCGUIRE, PAUL	Computing Resources	Maintain Data Center Infrastructure		NSF M&O Core			0.50			0.50
			Data Storage & Transfer	Maintain and Operate Data Storage Infrastructure		NSF M&O Core			0.50			0.50
		<b>MCGUIRE, PAUL Total</b>						<b>1.00</b>				<b>1.00</b>
		MEADE, PATRICK	Data Production Processing	0.10 Unpacking, Decoding and Calibration of Raw Data in the North (Level1) 0.15 Run Common Reconstructions on UW IceCube Compute Cluster (Level2)		NSF M&O Core			0.00			0.00
				0.2 Unpacking, Decoding and Calibration of Raw Data in the North (Level1) 0.3 Run Common Reconstructions on UW IceCube Compute Cluster (Level2)		NSF M&O Core			0.50			0.50
			Data Storage & Transfer	Transfer Data from S. Pole to UW Data Warehouse and Archive at S. Pole Maintain Data Transfer Software (SPADE) Maintain Data Warehouse Standards, Software (Ingest), Data Access (FTP), and Web Interface		NSF M&O Core			0.50			0.50
		<b>MEADE, PATRICK Total</b>						<b>1.00</b>				<b>1.00</b>
		UW TE	Computing Resources	Maintain Core High Performance Computing Systems		NSF M&O Core			0.44			0.44
			Core Software	Maintain Data Processing Software		NSF M&O Core			0.30			0.30
			Data Storage & Transfer	Transformation of Data for Long-Term Persistence and Archival, e.g., HDF5 Maintain Data Warehouse Standards, Software (Ingest), Data Access (FTP), and Web Interface		NSF M&O Core			0.30			0.30
			Engineering and R&D Support	EMI, Instrumentation, I/F		NSF M&O Core	0.25					0.25
		<b>UW TE Total</b>					<b>0.25</b>	<b>1.04</b>				<b>1.29</b>
	WO	UW WO	Run Coordination	Operate Detector (Winter-Overs)		NSF M&O Core		3.00				3.00
		<b>UW WO Total</b>						<b>3.00</b>				<b>3.00</b>
	<b>UW Total</b>						<b>6.88</b>	<b>10.44</b>	<b>10.54</b>	<b>0.80</b>	<b>2.45</b>	<b>31.11</b>
UWRF	KE	MADSEN, JIM	Education & Outreach Reconstruction/ Analysis tools	Teachers' program and UWRF Upward Bound Cosmic ray shower simulations and reconstruction		US Institutional Support	0.10					0.10
						US Institutional Support					0.10	0.10
		<b>MADSEN, JIM Total</b>					<b>0.10</b>				<b>0.10</b>	<b>0.20</b>
		SPICZAK, GLENN	IceTop Operations	IceTop tank Monitoring		US Institutional Support		0.03				0.03
		<b>SPICZAK, GLENN Total</b>						<b>0.03</b>				<b>0.03</b>
	SC	Tamburro, Alessio	IceTop Operations	IceTop tank Monitoring		US Institutional Support		0.03				0.03
			Reconstruction/ Analysis tools	Shower simulations, TankTop simulation		US Institutional Support					0.20	0.20
		<b>Tamburro, Alessio Total</b>						<b>0.03</b>			<b>0.20</b>	<b>0.23</b>
	TE	UWRF TE	Education & Outreach	Teachers Program		US Base Grants	0.15					0.15
		<b>UWRF TE Total</b>					<b>0.15</b>					<b>0.15</b>
	<b>UWRF Total</b>						<b>0.25</b>	<b>0.05</b>			<b>0.30</b>	<b>0.60</b>
<b>Grand Total</b>							<b>9.93</b>	<b>15.49</b>	<b>14.68</b>	<b>3.58</b>	<b>8.43</b>	<b>52.11</b>

**IceCube M&O Staffing Matrix sort by Institutions v8.3 2010.0518.xls**

Institution	Labor Cat.	Names		WBS L3		Tasks		WBS 2.1 Program Management	WBS 2.2 Detector Maintenance & Operations	WBS 2.3 Computing & Data Management	WBS 2.4 Triggering & Filtering	WBS 2.5 Data Quality, Reconstruction & Simulation Tools	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										
ALBERTA	KE	GRANT, DARREN	Reconstruction/ Analysis tools	Maintenance of IceCube-Photonics interface								0.10	0.10		
			Simulation Production	WestGrid computing						0.10			0.10		
	GRANT, DARREN Total									0.10		0.10	0.20		
	PO	ALBERTA, PO	Reconstruction/ Analysis tools	Maintenance of IceCube-Photonics interface									0.30	0.30	
ALBERTA, PO Total											0.30	0.30			
<b>ALBERTA Total</b>												<b>0.10</b>	<b>0.40</b>	<b>0.50</b>	
BARBADOS	KE	Seunarine, Suruj	DATA QUALITY, RECONSTRUCTION & SIMULATION TOOLS	Analysis of flasher runs for inice calibration of saturation, and flasher and Standard Candle runs for absolute energy calibration for cascades.								0.15	0.15		
			Physics Filters	Work on cascade filter								0.15	0.15		
	Seunarine, Suruj Total											0.15	0.30		
<b>BARBADOS Total</b>												<b>0.15</b>	<b>0.15</b>	<b>0.30</b>	
CHIBA	KE	YOSHIDA, SHIGERU	Physics Filters	EHE WG Lead								0.25	0.25		
		YOSHIDA, SHIGERU Total											0.25	0.25	
			Reconstruction/ Analysis tools	Maintain Romeo, EHE Simulations									0.20	0.20	
	CHIBA KE Total											0.20	0.20		
	SC	CHIBA SC	Reconstruction/ Analysis tools	Maintain Romeo, EHE Simulations, Maintain reconstruction projects (Portia), MC/Data comparison for EHE-filtered and IceTop events, Standard Candle Analysis									0.20	0.20	
		CHIBA SC Total											0.20	0.20	
	GR	ONO, MIO	Physics Filters	EHE Filters									0.15	0.15	
		ONO, MIO Total											0.15	0.15	
		CHIBA GR	Detector Monitoring	Detector Monitoring						0.03				0.03	
			Reconstruction/ Analysis tools	Improve the Ice Model, Afterpulse Simulator, Standard Candle Analysis, Maintain reconstruction projects (Ophelia, ehe-star)									0.20	0.20	
CHIBA GR Total									0.03			0.20	0.23		
<b>CHIBA Total</b>												<b>0.03</b>	<b>0.40</b>	<b>0.60</b>	<b>1.03</b>
DESY	KE	SPIERING, CHRISTIAN	Administration	ExecCom member				0.15					0.15		
		SPIERING, CHRISTIAN Total											0.15	0.15	
		NAHNHAUER, ROLF	Engineering and R&D Support	Acoustic R&D Support						0.10				0.10	
		NAHNHAUER, ROLF Total												0.10	
		WALTER, MICHAEL	Simulation Production	Simulation Production Cluster							0.20			0.20	
	WALTER, MICHAEL Total										0.20			0.20	
	SC	BENABDERRAHMANE, I	Detector Monitoring	Deputy Monitoring Coordinator						0.20				0.20	
		BENABDERRAHMANE, LOFTI Total									0.20			0.20	
		DESY SC	Detector Monitoring	Detector Monitoring						0.06				0.06	
		DESY SC Total									0.06			0.06	
		SULANKE, K.-H.	Data Acquisition	DAQ Firmware Support						0.15				0.15	
		SULANKE, K.-H. Total									0.15			0.15	
		BERGMANN, JENS	Simulation Production	Simulation Production Cluster							0.25			0.25	
	BERGMANN, JENS Total										0.25			0.25	
	GR	FRANKE, ROBERT	Physics Filters	Online Filter for Alerts Rate Data Bank South Pole									0.10	0.10	
		FRANKE, ROBERT Total											0.10	0.10	
		DESY GR	Detector Monitoring	Detector Monitoring						0.12				0.12	
			Simulation Production	Simulation Production Cluster							0.15			0.15	
		DESY GR Total									0.12	0.15		0.27	
		MIDDELL, EIKE	Reconstruction/ Analysis tools	Cascade Reconstruction									0.30	0.30	
MIDDELL, EIKE Total												0.30	0.30		
ACHIM STOESSL		Detector Calibration	Flasher Analysis						0.20				0.20		
ACHIM STOESSL Total									0.20			0.20			
EIKE MIDDELL		Detector Calibration	Flasher Analysis						0.10				0.10		
EIKE MIDDELL Total									0.10			0.10			
KISLAT, FABIAN	Computing Resources	Reconstruciton Coordinator (acting), Maintain Reconstruction Framework								0.15			0.15		
KISLAT, FABIAN Total										0.15			0.15		
AD	DESY AD	Administration	Host Fall Collaboration Meeting						0.00				0.00		
	DESY AD Total									0.00			0.00		
TE	DESY TE	Computing Resources	European Data Center -Distributed Computing and Labor								2.00		2.00		
	DESY TE Total											2.00	2.00		
<b>DESY Total</b>								<b>0.25</b>	<b>0.83</b>	<b>2.75</b>	<b>0.20</b>	<b>0.30</b>	<b>4.33</b>		
DTMND	SC	PIELOTH, DAMIAN	Computing Resources	Coordinate GRID computing in Germany								0.25	0.25		
		PIELOTH, DAMIAN Total											0.25	0.25	
	GR	DTMD GR	Detector Monitoring	Detector Monitoring						0.03				0.03	
			Simulation Production	Simulation Production							0.40			0.40	
		DTMD GR Total									0.03	0.40		0.43	
Milke, Natalie	Simulation Programs	Simulation Programs: noise-generator									0.20	0.20			
Milke, Natalie Total												0.20	0.20		
<b>DTMND Total</b>								<b>0.03</b>	<b>0.65</b>	<b>0.20</b>	<b>0.30</b>	<b>0.88</b>			

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Institution	Labor Cat.	Names		WBS L3		Tasks		WBS 2.1 Program Management	WBS 2.2 Detector Maintenance & Operations	WBS 2.3 Computing & Data Management	WBS 2.4 Triggering & Filtering	WBS 2.5 Data Quality, Reconstruction & Simulation Tools	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										
EPFL	KE	EPFL KE	Engineering and R&D Support	Acoustic R&D Support		0.10							0.10		
		EPFL KE Total				0.10								0.10	
	SC	EPFL SC	Reconstruction/ Analysis tools	SLF, Low Energy, Energy reconstruction (development)								0.25		0.25	
		EPFL SC Total										0.25		0.25	
	GR	EPFL GR	Detector Monitoring	Detector Monitoring				0.03						0.03	
EPFL GR Total							0.03						0.03		
<b>EPFL Total</b>								<b>0.10</b>	<b>0.03</b>			<b>0.25</b>	<b>0.38</b>		
MPI	KE	RESCONI, ELISA	Administration	Analysis Coordinator		0.50							0.50		
		RESCONI, ELISA Total				0.50								0.50	
	PO	MPI PO	Data Quality	Data Quality & DeepCore								0.60		0.60	
		MPI PO Total										0.60		0.60	
	GR	MPI GR	Detector Monitoring	Detector Monitoring				0.05						0.05	
MPI GR Total							0.05						0.05		
<b>MPI Total</b>								<b>0.50</b>	<b>0.05</b>			<b>0.60</b>	<b>1.15</b>		
RWTH	KE	WIEBUSCH, CHRISTOPH	Administration	Coordinate BMBF Funding		0.10							0.10		
		WIEBUSCH, CHRISTOPHER Total				0.10								0.10	
	SC	RWTH SC	Core Software	Maintain Reconstruction Framework				0.10						0.10	
			Engineering and R&D Support	Acoustic R&D Support		0.10								0.10	
		RWTH SC Total						0.10		0.20				0.30	
	PO	BOERSMA, DAVID RWTH	Physics Filters	Gal Cen Filter (Moon Filter) muon channel WG Co. Chair							0.15	0.25		0.40	
			BOERSMA, DAVID RWTH Total								0.40				0.40
	GR	RWTH GR	Core Software	Maintain Reconstruction Framework				0.15						0.15	
			Detector Monitoring	Monitoring (3 weeks)				0.09						0.09	
			Reconstruction/ Analysis tools	Reconstruction Software								0.30		0.30	
			Simulation Production	Simulation Production on cluster/GRID						0.85				0.85	
		RWTH GR Total						0.09	1.00		0.30			1.39	
	SCHUKRAFT, ANNE	SCHUKRAFT, ANNE	Data Production Processing	Photonics Production					0.25					0.25	
			SCHUKRAFT, ANNE Total						0.25					0.25	
	WALLRAFF, MARIUS	WALLRAFF, MARIUS	Reconstruction/ Analysis tools	New Feature Extractor								0.50		0.50	
WALLRAFF, MARIUS Total										0.50		0.50			
<b>RWTH Total</b>								<b>0.20</b>	<b>0.09</b>	<b>1.45</b>	<b>0.40</b>	<b>0.80</b>	<b>2.94</b>		
SU	KE	HULTH, PER OLOF	Administration	ExecCom member		0.20							0.20		
			ICB Member		0.05									0.05	
			Outreach		0.15										0.15
			Physics Filters	Low Energy DeepCore WG Lead						0.25				0.25	
		HULTH, PER OLOF Total						0.40		0.25				0.65	
	HULTQVIST, KLAS	HULTQVIST, KLAS	Simulation Programs	Photonics/Simulation Work, hit-maker								0.15		0.15	
			HULTQVIST, KLAS Total									0.15		0.15	
	WALCK, CHRISTIAN	WALCK, CHRISTIAN	Administration	Pubcom member		0.10								0.10	
			Simulation Programs	Photonics/Simulation Work								0.05		0.05	
	WALCK, CHRISTIAN Total						0.10				0.05		0.15		
	SC	FINLEY, CHAD SU	Administration	Coordination with LIGO		0.10								0.10	
			Physics Filters	Point Source WG Lead					0.25					0.25	
			Simulation Programs	Simulation Programs: neutrino-generator								0.20		0.20	
		FINLEY, CHAD SU Total						0.10		0.25		0.20		0.55	
		SEO, SEON-HEE	SEO, SEON-HEE	Physics Filters	Develop & verify filters							0.05			0.05
	Reconstruction/ Analysis tools			Photonics/Simulation Work								0.15		0.15	
	SEO, SEON-HEE Total								0.05		0.15		0.20		
	SU SC	SU SC	Computing Resources	Computing Resources					0.50					0.50	
SU SC Total								0.50					0.50		
GR	DANNINGER, MATTIAS	DANNINGER, MATTIAS	Physics Filters	WIMP Trigger & Filter					0.15				0.15		
			DANNINGER, MATTIAS Total						0.15					0.15	
	JOHANSSON, HENRIK	JOHANSSON, HENRIK	Physics Filters	UHE Trigger & Filter						0.10			0.10		
			Simulation Production	GRID/Simulation production & development					0.20				0.20		
	JOHANSSON, HENRIK Total							0.20	0.10				0.30		
SU GR	SU GR	Detector Monitoring	Detector Monitoring				0.06						0.06		
SU GR Total							0.06						0.06		
<b>SU Total</b>								<b>0.60</b>	<b>0.06</b>	<b>0.70</b>	<b>0.80</b>	<b>0.55</b>	<b>2.71</b>		
UC	SC	GROSS, ANDREAS	DATA QUALITY, RECONSTRUCTION & SIMULATION TOOLS	Data Quality, Reco. & Sim. Tools Coordinator ("Low-level" Analysis Coordinator)								0.50	0.50		
			GROSS, ANDREAS Total									0.50		0.50	
	GR	UC GR	Detector Monitoring	Detector Monitoring				0.02						0.02	
Run Coordination			Flasher Runs				0.10						0.10		
UC GR Total							0.12						0.12		
<b>UC Total</b>								<b>0.12</b>			<b>0.50</b>	<b>0.62</b>			



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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										
ULB	KE	BERTRAND, DANIEL	Administration	ExecCom member			0.20						0.20		
		BERTRAND, DANIEL Total					0.20						0.20		
		HANSON, KAE ULB	Data Acquisition	Data Acquisition			0.10	0.20						0.20	
			Engineering and R&D Support	EMI/R&D										0.10	
	HANSON, KAE ULB Total		TFT Coordination	TFT Board member			0.10	0.20		0.10			0.40		
	PO	Marotta, Alberto	Core Software	Maintain and Operate Database Systems (I3OmDb)					0.20				0.20		
		Marotta, Alberto Total		Simulation Production	Computer Cluster - simulation					0.30			0.30		
	GR	ULB GR	Detector Monitoring	Detector Monitoring				0.03					0.03		
			Physics Filters	Study of Tau Filters at South Pole						0.10			0.10		
		ULB GR Total						0.03		0.10			0.13		
	<b>ULB Total</b>								<b>0.30</b>	<b>0.23</b>	<b>0.50</b>	<b>0.20</b>	<b>1.23</b>		
	UMH	GR	KOHNEN, GEORGE	Computing Resources	IC database management					0.30			0.30		
KOHNEN, GEORGE Total			Detector Monitoring	Detector Monitoring			0.03				0.03				
<b>UMH Total</b>								<b>0.03</b>	<b>0.30</b>	<b>0.33</b>					
UOX	KE	SARKAR, SUBIR	Detector Monitoring	Detector Monitoring				0.02				0.10			
			Simulation Programs	Yellow Book-maintenance								0.10			
		SARKAR, SUBIR Total						0.02				0.10			
<b>UOX Total</b>								<b>0.02</b>	<b>0.10</b>	<b>0.12</b>					
UU	KE	BOTNER, OLGA	Administration	Outreach			0.05					0.05			
			Pubcom Chair				0.40				0.40				
		BOTNER, OLGA Total					0.45				0.45				
		de los HEROS, CARLOS	Physics Filters	WIMP WG Lead						0.25		0.25			
			TFT Coordination	TFT Board member						0.10		0.10			
		de los HEROS, CARLOS Total								0.35		0.35			
	HALLGREN, ALLAN	Administration	Outreach			0.05					0.05				
		Engineering and R&D Support	Speakers Comm member			0.10					0.10				
		Physics Filters	Acoustic R&D Support			0.20					0.20				
		HALLGREN, ALLAN Total		online filter development			0.35			0.05		0.40			
	PO	MILLER, JONATHAN	Simulation Programs	Simulation Programs: photonics							0.20	0.20			
		MILLER, JONATHAN Total									0.20	0.20			
	GR	UU GR	Detector Monitoring	Detector Monitoring				0.03				0.03			
			UU GR Total					0.03				0.03			
		Strom, Rickard	Physics Filters	Online filter development & testing						0.10		0.10			
Strom, Rickard Total								0.10		0.10					
<b>UU Total</b>								<b>0.80</b>	<b>0.03</b>	<b>0.50</b>	<b>0.20</b>	<b>1.53</b>			
VUB	KE	VUB KE	Data Quality	data quality verification							0.25	0.25			
			Reconstruction/ Analysis tools	development of reconstruction tools (IcePack framework)							0.25	0.25			
		VUB KE Total										0.50	0.50		
	PO	Strahler, Erik	Data Quality	verification Deep Core data quality							0.25	0.25			
			Simulation Production	simulation of ice properties and DOM sensitivities					0.25		0.25	0.50			
		Strahler, Erik Total								0.25	0.25	0.50			
		VUB PO	Detector Monitoring	Monitoring shifts				0.06				0.06			
		VUB PO Total						0.06				0.06			
		Bose, Debanjan	Data Quality	verification Deep Core data quality								0.25	0.25		
	Reconstruction/ Analysis tools		muon track reconstruction in IceCube and DeepCore, waveform feature extractor								0.25	0.25			
	Bose, Debanjan Total										0.50	0.50			
	Labare, Mathieu	Data Quality	verification Deep Core data quality								0.13	0.13			
		Physics Filters	Filter for Southern sky muons						0.25		0.25				
		Reconstruction/ Analysis tools	muon track reconstruction in IceCube and DeepCore							0.13	0.13				
	Labare, Mathieu Total								0.25	0.25	0.50				
	Singh, Kalpana	Data Quality	verification Deep Core data quality								0.13	0.13			
		Physics Filters	Filter for Southern sky muons						0.25		0.25				
		Reconstruction/ Analysis tools	muon track reconstruction in IceCube and DeepCore, waveform feature extractor							0.13	0.13				
Singh, Kalpana Total								0.25	0.25	0.50					
GR	VUB GR	Detector Monitoring	Detector Monitoring				0.03				0.03				
		VUB GR Total					0.03				0.03				
<b>VUB Total</b>								<b>0.09</b>	<b>0.25</b>	<b>0.50</b>	<b>1.75</b>	<b>2.59</b>			
WUPPERTAL	KE	HELBING, KLAUS	Administration	Speakers Comm member			0.10					0.10			
			Engineering and R&D Support	R&D Lead			0.10					0.10			
		HELBING, KLAUS Total						0.20				0.20			
	WUPPERTAL KE	Engineering and R&D Support	RFI			0.10						0.10			
		WUPPERTAL KE Total						0.10				0.10			
	PO	KARG, TIMO	Engineering and R&D Support	Acoustic Lead									0.10		
Simulation Production			Simulation Production					0.20			0.20				
KARG, TIMO Total						0.10		0.20			0.30				



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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										
WUPPERTAL	GR	WUPPERTAL GR	Detector Monitoring	AURA, SPATS, surface antenna operations (RICE)			0.45						0.45		
			South Pole EMI Monitoring				0.15						0.15		
			Physics Filters	New SUSY Filter						0.20				0.20	
			Reconstruction/ Analysis tools	New SUSY Reconstruction, Simulation, Propagation, Monopole, Photonics								0.50		0.50	
			Simulation Production	Simulation Production									0.20	0.20	
<b>WUPPERTAL GR Total</b>									0.60	0.20	0.20	0.50	<b>2.10</b>		
<b>WUPPERTAL Total</b>								<b>0.40</b>	<b>0.60</b>	<b>0.40</b>	<b>0.20</b>	<b>0.50</b>	<b>2.10</b>		
MAINZ	KE	Köpke, Lutz	Administration	ExecCom member			0.15						0.15		
			<b>Köpke, Lutz Total</b>											0.15	
	SC	AHRENS, JENS	Simulation Production	Simulation Production					0.15				0.15		
			<b>AHRENS, JENS Total</b>								0.15			0.15	
	GR	Kroll, Gösta	SuperNova Operations	SuperNova Operations					0.50				0.50		
			<b>Kroll, Gösta Total</b>								0.50			0.50	
			Reconstruction/ Analysis tools	Reconstruction Tools								0.20		0.20	
	<b>Lünemann, Jan Total</b>										0.20		0.20		
	SC	SCHATTO, KAI	Detector Monitoring	Monitoring IceCube Live integration					0.35					0.35	
			<b>SCHATTO, KAI Total</b>								0.35			0.35	
	UM GR	UM GR	Detector Monitoring	Detector Monitoring					0.05					0.05	
			<b>UM GR Total</b>								0.05			0.05	
	GR	WIEBE, KLAUS	Simulation Production	Simulation Production						0.30				0.30	
			SuperNova Operations	SuperNova IceCube Live integration					0.10					0.10	
	<b>WIEBE, KLAUS Total</b>								0.10	0.30				0.40	
<b>MAINZ Total</b>								<b>0.15</b>	<b>1.00</b>	<b>0.45</b>	<b>0.20</b>	<b>0.20</b>	<b>1.80</b>		
HUMBOLDT	SC	HUMB SC	Detector Monitoring	Detector Monitoring					0.03				0.03		
			Reconstruction/ Analysis tools	Reconstruction/ Analysis tools							0.10		0.10		
			<b>HUMB SC Total</b>								0.03		0.10	0.13	
	WALDENMAIER, TILO	Administration	ICC member for reconstruction			0.15							0.15		
		IceTop Operations	IceTop Operations					0.10					0.10		
		Physics Filters	CR-WG Filter							0.15			0.15		
<b>WALDENMAIER, TILO Total</b>								0.15	0.10		0.40	0.65			
<b>HUMBOLDT Total</b>								<b>0.15</b>	<b>0.13</b>	<b>0.40</b>	<b>0.10</b>	<b>0.78</b>			
GENT	SC	UGENT SC	Engineering and R&D Support	Acoustic R&D Support			0.05						0.05		
			Simulation Programs	Support IceTop Simulations, IceTop Calibrations, IceTop Reconstruction							0.10		0.10		
			<b>UGENT SC Total</b>								0.05		0.10	0.15	
	GR	UGENT GR	Detector Monitoring	Detector Monitoring					0.03				0.03		
			Engineering and R&D Support	Acoustic R&D Support			0.05							0.05	
<b>UGENT GR Total</b>								0.05	0.03		0.40	0.48			
<b>GENT Total</b>								<b>0.10</b>	<b>0.03</b>		<b>0.50</b>	<b>0.63</b>			
BONN	KE	KOWALSKI, MAREK	Administration	Pubcom member			0.10						0.10		
			Physics Filters	cascaades WG Co-Lead						0.25			0.25		
			TFT Coordination	TFT Board member							0.10			0.10	
			<b>KOWALSKI, MAREK Total</b>								0.10	0.35		0.45	
	PO	Boeser Sebastian	Run Coordination	Run Coordinator					0.50				0.50		
			<b>Boeser Sebastian Total</b>							0.50			0.50		
	GR	FRANCKOWIAK, ANNA	Physics Filters	Alert System for follow-up						0.10			0.10		
			<b>FRANCKOWIAK, ANNA Total</b>								0.10		0.10		
		PANKNIN, SEBASTIAN	Reconstruction/ Analysis tools	IC-40 L3 processing								0.20		0.20	
			<b>PANKNIN, SEBASTIAN Total</b>									0.20		0.20	
UBONN GR	UBONN GR	Detector Monitoring	Detector Monitoring					0.03				0.03			
		Reconstruction/ Analysis tools	Reconstruction/ Analysis tools							0.20		0.20			
<b>UBONN GR Total</b>								0.03			0.20	0.23			
<b>HOMRIER, ANDREAS Total</b>									0.10		0.10	0.10			
<b>BONN Total</b>								<b>0.10</b>	<b>0.53</b>	<b>0.55</b>	<b>0.40</b>	<b>1.58</b>			
BOCHUM	KE	BECKER, JULIA	Administration	Pubcom member			0.10						0.10		
			<b>BECKER, JULIA Total</b>											0.10	
	PO	Dreyer, Jens	Simulation Programs	Simulation Programs: neutrino-generator								0.20	0.20		
			Update MMC from Java to C++									0.25	0.25		
	<b>Dreyer, Jens Total</b>										0.45		0.45		
	GR	Olivo, Martino	Simulation Programs	Update MMC from Java to C++									0.25	0.25	
<b>Olivo, Martino Total</b>										0.25		0.25			
<b>UBOCHUM GR Total</b>								0.03				0.03			
<b>BOCHUM Total</b>								<b>0.10</b>	<b>0.03</b>		<b>0.70</b>	<b>0.83</b>			
<b>Grand Total</b>								<b>3.75</b>	<b>3.96</b>	<b>7.55</b>	<b>4.30</b>	<b>8.80</b>	<b>28.36</b>		