

IceCube MOU Summary v6 2009.0508 by Labor Cat.xls
M&O Core & In-Kind - Physicists

v6 May 8th, 2009					Head Count					M&O CORE & IN KIND				
Institution (Lead)					Ph.D. scientists	Faculty	Sc / Post Docs	Students	2.1 Program Management	2.2 Detector Operations & Maintenance	2.3 Computing & Data Management	2.4 Triggering & Filtering	2.5 Data Quality, Reconstruction & Simulation Tools	Total
University of Alabama (Dawn Williams)					2	(1	1	2)		0.33			0.6	0.93
University of Alaska (Katherine Rawlins)					1	(1	0	0)		0.02			0.4	0.42
Clark Atlanta (George Japaridze)					1	(1	0	0)		0.015				0.015
Georgia Tech (Ignacio Taboada)					1	(1	0	2)		0.43	0.2	0.25		0.88
LBNL (Spencer Klein)					7	(3	4	1)	0.4	1.14	0.2	0.25	0.35	2.34
Ohio State University (James Beatty)					4	(1	3	1)		0.23		0.3	0.3	0.83
Pennsylvania State University (Doug Cowen)					7	(3	4	4)	0.3	0.56	1.25	0.65	0.9	3.66
Southern University (Ali Fazely)					4	(3	1	0)		0.015	0.2		0.3	0.515
University of California, Berkeley (Buford Price)					5	(1	4	2)	0.1	0.88		0.25	0.5	1.73
University of California, Irvine (Steve Barwick)					2	(1	1	1)		0.02				0.02
University of Delaware (Paul Evenson, acting for T. Gaisser)					8	(4	4	2)	0.6	1.06	0.2	0.25	0.3	2.41
University of Kansas (Dave Besson)					1	(1	0	0)	0.1	0.02				0.12
University of Maryland (Greg Sullivan)					7	(4	3	6)	0.6	0.54	1.15	1.0	1.4	4.69
University of Wisconsin, River Falls (Jim Madsen)					4	(2	2	0)	0.25	0.05			0.1	0.4
University of Wisconsin, Madison (Albrecht Karle)					19	(5	14	13)	1.62	2.29	1.0	1.25	3.5	9.66
US Institutions Subtotal					73	(32	41	34)	3.97	7.6	4.2	4.2	8.65	28.62
RWTH Aachen (Christopher Wiebusch)					3	(1	2	6)	0.2	0.045	0.65	0.3	0.6	1.795
DESY-Zeuthen (Christian Spiering)					9	(6	3	6)	0.65	0.48	2.25	0.25	0.1	3.73
Stockholm University (Per Olof Hulth)					5	(4	1	3)	0.15	0.06	0.2	0.25	0.9	1.56
Universität Dortmund (Wolfgang Rhode)					2	(2	0	2)		0.03	0.65			0.68
Universität Mainz (Lutz Köpke)					1	(1	0	6)	0.15	0.76	0.4		0.2	1.51
Universität Wuppertal (Klaus Helbing)					3	(2	1	5)	0.3	0.36	0.4	0.15	0.4	1.61
Universite Libre de Bruxelles (Daniel Bertrand)					3	(2	1	3)	0.3	0.23	0.4	0.1		1.03
MPI Heidelberg (Elisa Resconi)					2	(1	1	3)	0.5	0.145			0.7	1.345
Humboldt Universität Berlin (Hermann Kolanoski)					3	(2	1	2)	0.5	0.03		0.8	0.5	1.83
Universite de Mons-Hainaut (Philippe Herquet)					1	(1	0	1)		0.03	0.3			0.33
University of Canterbury (Jenni Adams)					3	(2	1	3)		0.12			0.3	0.42
Chiba University (Shigeru Yoshida)					3	(1	2	3)		0.03		0.4	0.6	1.03
University of Gent (Dirk Ryckbosch)					3	(1	2	4)	0.1	0.03			0.2	0.33
Utrecht University (Nick van Eijndhoven)					1	(1	0	1)		0.02			0.2	0.22
Uppsala University (Olga Botner)					3	(3	0	2)	0.2	0.16		0.35		0.71
Vrije Universiteit Brussel (Catherine de Clercq)					1	(1	0	2)		0.03	0.1	0.15		0.28
University of Oxford (Subir Sarkar)					2	(1	1	0)		0.02			0.5	0.52
Ecole Polytechnique Federale de Lausanne (Mathieu Ribordy)					2	(1	1	2)		0.13			0.2	0.33
Non-US Institutions Subtotal					50	(33	17	54)	3.1	2.71	5.35	2.75	5.4	19.26
Total US & Non-US					123	(65	58	88)	7.02	10.31	9.55	6.95	14.05	47.88

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M&O Core & In-Kind - Physicists

v6 May 8th, 2009	Head Count				IN KIND ONLY						IN KIND ONLY - FTE by Labor Category				
Institution (Lead)	Ph.D. scientists	Faculty	Sc / Post Docs	Students	2.1 Program Management	2.2 Detector Operations & Maintenance	2.3 Computing & Data Management	2.4 Triggering & Filtering	2.5 Data Quality, Reconstruction & Simulation Tools	Total	Faculty	Scient. / Post Docs	Grad Students	Other	Total FTE
University of Alabama (Dawn Williams)	2	(1	1	2)		0.33			0.6	0.93	0.3	0.615	0.015		0.93
University of Alaska (Katherine Rawlins)	1	(1	0	0)		0.02			0.4	0.42	0.42				0.42
Clark Atlanta (George Japaridze)	1	(1	0	0)		0.015				0.015		0.015			0.015
Georgia Tech (Ignacio Taboada)	1	(1	0	2)		0.43	0.2	0.25		0.88	0.25	0.2	0.43		0.88
LBNL (Spencer Klein)	7	(3	4	1)	0.4	0.49	0.2	0.25	0.35	1.69	0.9	0.775	0.015		1.69
Ohio State University (James Beatty)	4	(1	3	1)		0.23		0.3	0.3	0.83		0.66	0.17		0.83
Pennsylvania State University (Doug Cowen)	7	(3	4	4)	0.3	0.41	0.25	0.65	0.9	2.51	0.65	1.13	0.73		2.51
Southern University (Ali Fazely)	4	(3	1	0)		0.015	0.2		0.3	0.515	0.35	0.165			0.515
University of California, Berkeley (Buford Price)	5	(1	4	2)	0.1	0.88		0.25		1.23	0.1	1.015	0.115		1.23
University of California, Irvine (Steve Barwick)	2	(1	1	1)		0.02				0.02		0.01	0.01		0.02
University of Delaware (Paul Evenson, acting for T. Gaisser)	8	(4	4	2)	0.6	0.06	0.15	0.25	0.3	1.36	0.6	0.63	0.13		1.36
University of Kansas (Dave Besson)	1	(1	0	0)	0.1	0.02				0.12	0.12				0.12
University of Maryland (Greg Sullivan)	7	(4	3	6)	0.6	0.34	1.15	0.7	1	3.79	0.75	1.03	2.01		3.79
University of Wisconsin, River Falls (Jim Madsen)	4	(2	2	0)	0.25	0.05			0.1	0.4	0.3	0.1			0.4
University of Wisconsin, Madison (Albrecht Karle)	19	(5	14	13)	1.03	1.69	0.3	1.25	3	7.27	0.53	2.52	3.72	0.5	7.27
US Institutions Subtotal	73	(32	41	34)	3.38	5	2.45	3.9	7.25	21.98	5.3	8.9	7.3	0.5	21.98
RWTH Aachen (Christopher Wiebusch)	3	(1	2	6)	0.2	0.045	0.65	0.3	0.6	1.795	0.1	0.615	1.08		1.795
DESY-Zeuthen (Christian Spiering)	9	(6	3	6)	0.65	0.48	2.25	0.25	0.1	3.73	0.45	0.61	0.97	1.7	3.73
Stockholm University (Per Olof Hult)	5	(4	1	3)	0.15	0.06	0.2	0.25	0.9	1.56	0.65	0.45	0.46		1.56
Universität Dortmund (Wolfgang Rhode)	2	(2	0	2)		0.03	0.65			0.68	0.25		0.43		0.68
Universität Mainz (Lutz Köpke)	1	(1	0	6)	0.15	0.76	0.4		0.2	1.51	0.15		1.36		1.51
Universität Wuppertal (Klaus Helbing)	3	(2	1	5)	0.3	0.36	0.4	0.15	0.4	1.61	0.3	0.2	1.11		1.61
Universite Libre de Bruxelles (Daniel Bertrand)	3	(2	1	3)	0.3	0.23	0.4	0.1		1.03	0.6	0.2	0.03	0.2	1.03
MPI Heidelberg (Elisa Resconi)	2	(1	1	3)	0.5	0.145			0.7	1.345	0.5	0.70	0.145		1.345
Humboldt Universität Berlin (Hermann Kolanoski)	3	(2	1	2)	0.5	0.03		0.8	0.5	1.83	0.45	0.80	0.18	0.4	1.83
Universite de Mons-Hainaut (Philippe Herquet)	1	(1	0	1)		0.03	0.3			0.33			0.33		0.33
University of Canterbury (Jenni Adams)	3	(2	1	3)		0.12			0.3	0.42		0.15	0.27		0.42
Chiba University (Shigeru Yoshida)	3	(1	2	3)		0.03		0.4	0.6	1.03	0.45	0.20	0.38		1.03
University of Gent (Dirk Ryckbosch)	3	(1	2	4)	0.1	0.03			0.2	0.33		0.15	0.18		0.33
Utrecht University (Nick van Eijndhoven)	1	(1	0	1)		0.02			0.2	0.22			0.22		0.22
Uppsala University (Olga Botner)	3	(3	0	2)	0.2	0.16		0.35		0.71	0.55		0.16		0.71
Vrije Universiteit Brussel (Catherine de Clercq)	1	(1	0	2)		0.03	0.1	0.15		0.28	0.1		0.18		0.28
University of Oxford (Subir Sarkar)	2	(1	1	0)		0.02			0.5	0.52	0.25	0.27			0.52
Ecole Polytechnique Federale de Lausanne (Mathieu Ribordy)	2	(1	1	2)		0.13			0.2	0.33		0.30	0.03		0.33
Non-US Institutions Subtotal	50	(33	17	54)	3.1	2.71	5.35	2.75	5.4	19.26	4.8	4.6	7.5	2.3	19.26
Total US & Non-US	123	(65	58	88)	6.43	7.71	7.8	6.65	12.65	41.24	10.1	13.5	14.9	2.8	41.24

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M&O Core & In-Kind - Physicists

v6 May 8th, 2009		Head Count				Grad Students - In Kind activities												
Institution (Lead)	Ph.D. scientists Faculty Sc / Post Docs Students	Monitoring	Calibration	Supernova Operations	Reconstruction Framework	Simulation Production	Core Software	Filters & Triggers	Reconstruction Tools	Simulation Tools	Data Quality	R&D (Acoustic , Radio)	Total In Kind FTE					
University of Alabama (Dawn Williams)	2 (1 1 2)	0.015											0.015					
University of Alaska (Katherine Rawlins)	1 (1 0 0)																	
Clark Atlanta (George Japaridze)	1 (1 0 0)																	
Georgia Tech (Ignacio Taboada)	1 (1 0 2)		0.43										0.43					
LBNL (Spencer Klein)	7 (3 4 1)	0.015											0.015					
Ohio State University (James Beatty)	4 (1 3 1)	0.015						0.15					0.165					
Pennsylvania State University (Doug Cowen)	7 (3 4 4)	0.03	0.15					0.15	0.25		0.15		0.73					
Southern University (Ali Fazely)	4 (3 1 0)												0					
University of California, Berkeley (Buford Price)	5 (1 4 2)	0.015	0.1										0.115					
University of California, Irvine (Steve Barwick)	2 (1 1 1)	0.01											0.01					
University of Delaware (Paul Evenson, acting for T. Gaisser)	8 (4 4 2)	0.03				0.1							0.13					
University of Kansas (Dave Besson)	1 (1 0 0)												0					
University of Maryland (Greg Sullivan)	7 (4 3 6)	0.06				0.25	0.75	0.45	0.25	0.25			2.01					
University of Wisconsin, River Falls (Jim Madsen)	4 (2 2 0)												0					
University of Wisconsin, Madison (Albrecht Karle)	19 (5 14 13)	0.12	0.8	0.2		0.3		0.5	0.95	0.6	0.25		3.72					
US Institutions Subtotal	73 (32 41 34)	0.3	1.5	0.2	0.0	0.7	0.8	1.3	1.5	0.9	0.4	0.0	7.3					
RWTH Aachen (Christopher Wiebusch)	3 (1 2 6)	0.03			0.15	0.3		0.15	0.2	0.25			1.08					
DESY-Zeuthen (Christian Spiering)	9 (6 3 6)	0.12			0.15	0.25		0.25	0.1			0.1	0.97					
Stockholm University (Per Olof Hulth)	5 (4 1 3)	0.06								0.4			0.46					
Universität Dortmund (Wolfgang Rhode)	2 (2 0 2)	0.03				0.4							0.43					
Universität Mainz (Lutz Köpke)	1 (1 0 6)	0.06		0.7		0.4			0.2				1.36					
Universität Wuppertal (Klaus Helbing)	3 (2 1 5)	0.06				0.4		0.15	0.2	0.2		0.1	1.11					
Universite Libre de Bruxelles (Daniel Bertrand)	3 (2 1 3)	0.03											0.03					
MPI Heidelberg (Elisa Resconi)	2 (1 1 3)	0.045								0.1			0.145					
Humboldt Universität Berlin (Hermann Kolanoski)	3 (2 1 2)	0.03						0.15					0.18					
Universite de Mons-Hainaut (Philippe Herquet)	1 (1 0 1)	0.03					0.3						0.33					
University of Canterbury (Jenni Adams)	3 (2 1 3)	0.02	0.1								0.15		0.27					
Chiba University (Shigeru Yoshida)	3 (1 2 3)	0.03						0.15		0.2			0.38					
University of Gent (Dirk Ryckbosch)	3 (1 2 4)	0.03				0.1						0.05	0.18					
Utrecht University (Nick van Eijndhoven)	1 (1 0 1)	0.02							0.2				0.22					
Uppsala University (Olga Botner)	3 (3 0 2)	0.03	0.13										0.16					
Vrije Universiteit Brussel (Catherine de Clercq)	1 (1 0 2)	0.03						0.15					0.18					
University of Oxford (Subir Sarkar)	2 (1 1 0)																	
Ecole Polytechnique Federale de Lausanne (Mathieu Ribordy)	2 (1 1 2)	0.03											0.03					
Non-US Institutions Subtotal	50 (33 17 54)	0.7	0.2	0.7	0.3	1.9	0.3	1.0	0.9	1.2	0.2	0.3	7.5					
Total US & Non-US	123 (65 58 88)	1.0	1.7	0.9	0.3	2.5	1.1	2.3	2.4	2.0	0.6	0.3	14.86					