

# IceCube M&O MoU SOW Summary v17 2014.0915-with Yale and SD.xlsx

## Authors Contribution

v 17.0, September 2014	Authors Head Count				IceCube Authors: M&O Responsibilities (FTE)					
Institution (Lead)	Ph.D. Authors	Faculty	Scientists / Post Docs	Ph.D. Students	WBS 2.1 Program Management	WBS 2.2 Detector Operations & Maintenance	WBS 2.3 Computing & Data Management	WBS 2.4 Triggering & Filtering	WBS 2.5 Data Quality, Reconstruction & Simulation Tools	Total
University of Alabama (Dawn Williams)	3	(2	1	2)		0.45		0.35	0.75	1.55
University of Alaska (Katherine Rawlins)	1	(1	0	0)		0.02			0.30	0.32
Clark Atlanta (George Japaridze)	1	(1	0	0)		0.02				0.02
Georgia Tech (Ignacio Taboada)	1	(1	0	2)		0.23	0.20	0.35		0.78
LBNL (Spencer Klein)	6	(4	2	3)	0.15	0.34	0.20	0.25	0.95	1.89
Ohio State University (James Beatty)	4	(1	3	0)		0.35	0.10	0.00	0.05	0.50
Pennsylvania State University (Doug Cowen)	4	(1	3	3)	0.40	0.06	0.59	0.47	0.21	1.73
South Dakota School (Xinhua Bai)	1	(1	0	1)	0.04	0.02			0.39	0.45
Southern University (Ali Fazely)	3	(2	1	0)		0.02	0.30		0.60	0.92
Stony Brook University (Joanna Kiryluk)	2	(1	1	1)	0.05	0.10		0.45	0.35	0.95
University of California, Berkeley (Buford Price)	3	(1	2	0)	0.30	0.67		0.25	0.50	1.72
University of California, Irvine (Steve Barwick)	1	(1	0	1)		0.02				0.02
University of Delaware (Tom Gaisser)	7	(4	3	2)	0.35	1.05	0.00	0.20	0.90	2.50
University of Kansas (Dave Besson)	1	(1	0	0)	0.10	0.02				0.12
University of Maryland (Greg Sullivan)	7	(3	4	4)	1.40	0.39	1.18	0.40	1.50	4.86
University of Wisconsin, River Falls (Jim Madsen)	3	(3	0	0)	0.45			0.20	0.20	0.85
University of Wisconsin, Madison (Albrecht Karle)	18	(6	12	17)	2.63	2.80	1.30	0.40	3.60	10.73
Yale University (Reina Maruyama)	1	(1	0	1)		0.05			0.35	0.40
<b>U.S. Institutions Subtotal</b>	<b>67</b>	<b>(35</b>	<b>32</b>	<b>37)</b>	<b>5.87</b>	<b>6.60</b>	<b>3.87</b>	<b>3.32</b>	<b>10.65</b>	<b>30.30</b>
DESY-Zeuthen (Markus Ackermann)	7	(5	2	8)	0.50	0.17	1.65	0.50	0.50	3.32
RWTH Aachen (Christopher Wiebusch)	2	(1	1	11)	0.70	0.27	0.75	0.20	0.60	2.52
Universität Dortmund (Wolfgang Rhode)	2	(1	1	4)		0.03	0.45	0.60	0.50	1.58
Universität Mainz (Lutz Köpke)	1	(1	0	6)	0.25	1.05			0.30	1.60
Universität Wuppertal (Klaus Helbing)	2	(1	1	7)	0.10	0.50	0.20	0.45	0.60	1.85
Humboldt Universität Berlin (H.Kolanoski_interim)	2	(2	0	5)					0.25	0.25
Universität Bochum (Julia Tjus)	2	(1	1	3)	0.10	0.03		0.10	0.20	0.43
Technische Universität München (Elisa Resconi)	3	(1	2	3)		0.05			0.60	0.65
Universität Bonn (Marek Kowalski)	2	(1	1	4)	0.20	0.25		0.40	0.55	1.40
Universite Libre de Bruxelles (Kael Hanson)	2	(1	1	2)	0.50	1.12	0.10			1.72
Universite de Mons (Evelyne Daubie)	1	(0	1	0)		0.10	0.55			0.65
University of Gent (Dirk Ryckbosch)	3	(1	2	5)	0.10	0.03			0.40	0.53
Vrije Universiteit Brussel (Catherine de Clercq)	5	(2	3	5)	0.20	0.12		0.50	3.25	4.07
Stockholm University (Klas Hultqvist)	6	(5	1	4)	0.35	0.16		1.15	0.35	2.01
Uppsala University (Olga Botner)	5	(3	2	3)	0.80	0.16	0.35	0.65	0.20	2.16
University of Alberta (Darren, Grant)	2	(2	0	1)	0.80	0.00	0.65	0.20	0.60	2.25
University of Oxford (Subir Sarkar)	1	(1	0	0)		0.02			0.10	0.12
University of Canterbury (Jenni Adams)	1	(1	0	2)	0.05	0.05		0.40	0.10	0.60
University of Adelaide (Gary Hill)	2	(1	1	1)					1.90	1.90
Chiba University (Shigeru Yoshida)	7	(2	5	2)		0.03	0.20	0.40	1.05	1.68
Université de Genève (Teresa Montaruli)	3	(1	2	2)	0.20	0.20		0.95	1.15	2.50
Universität Erlangen-Nürnberg (A. Kappes)	1	(1	0	3)	0.45				0.50	0.95
Niels Bohr Institute (Jason Koskinen)	1	(1	0	3)		0.06	0.20	0.25	1.10	1.61
University of Toronto (Kenneth Clark)	1	(1	0	0)			0.35		0.10	0.45
Sungkyunkwan University (Carsten Rott)	2	(1	1	1)	0.05	0.18	0.00	0.45	0.20	0.88
<b>Non-U.S. Institutions Subtotal</b>	<b>66</b>	<b>(38</b>	<b>28</b>	<b>85)</b>	<b>5.35</b>	<b>4.58</b>	<b>5.45</b>	<b>7.20</b>	<b>15.10</b>	<b>37.68</b>
<b>Total U.S. &amp; Non-U.S.</b>	<b>133</b>	<b>(73</b>	<b>60</b>	<b>122)</b>	<b>11.22</b>	<b>11.17</b>	<b>9.32</b>	<b>10.52</b>	<b>25.75</b>	<b>67.98</b>

Changes since last official version are colored red