**IceCube Institutional Memorandum Of Understanding (MOU)**

**Scope of Work**

**University of Münster**

**Alexander Kappes**

**Ph.D Scientists** (Faculty Scientist/Post Doc Grads): **1** (1 0 4)

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Labor Cat.** | **Names** | **WBS Level 3** | **Tasks** | WBS 2.1 | WBS 2.2 | WBS 2.3 | WBS 2.4 | WBS 2.5 | WBS 2.6 | **Grand Total** |
| Program Coordination | Detector Maintenance & Operations | Computing & Data Management  | Data Processing & Simulation  | Software | Calibration |
| KE | KAPPES, Alexander | 2.1.1 Administration | Institutional lead | 0.20 |   |   |   |   |  | 0.20 |
|   | **KAPPES, Alexander, Total** |  | **0.20** |  |  |  |  |  | **0.20** |
| GR | CLASSEN, Lew | 2.1.4 Education & Outreach  | Public outreach |   |  |   |   |  0.10 |  | 0.10 |
|   | **CLASSEN, Lew Total** |  |  |  |  |  | **0.10** |  | **0.10** |
| **Institution Name Total**  |  | **0.20** |  |  |  | **0.10** |  | **0.30** |

**Faculty:**

Alexander Kappes (Faculty) – Institutional Lead

**Scientists and Post Docs:**

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**Grad Students:**

Lew Classen (PhD student) – Public outreach, Thesis topic: Simulations and hardware development for multi-PMT DOM prototype

Raffaela Busse (Master student) – Thesis topic: Setup of precision test stand for QE measurements and initial studies on 3" PMTs

Cristian Lozano (Master student) – Thesis topic: Simulation of MeV supernova neutrino detection with mDOMs

Martin Unland (Master student) – Thesis topic: Detailed investigation of PMT dark rates in mDOM