**IceCube Institutional Memorandum Of Understanding (M&O)**

**Scope of Work**

**Stockholm University**

**Klas Hultqvist**

**Ph.D Scientists** (Faculty Scientist/Post Doc Grads): **5** (4 1 2)

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Labor Cat.** | **Names** | **WBS L3** | **Tasks** | **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 |  |
|  KE | HULTQVIST, KLAS | AdministrationPhysics Filters | ICB MemberWG Lead - Diffuse flux | 0.05 |  |  | 0.25 |  | 0.050.25 |
|   | **HULTQVIST, KLAS Total** |  | **0.05** |  |  | **0.25** |  | **0.30** |
|   | WALCK, CHRISTIAN | Administration | Publications bookkeeping and author lists | 0.10 |   |   |   |   | 0.10 |
|   | **WALCK, CHRISTIAN Total** |  | **0.10** |  |  |  |  | **0.10** |
|   | FINLEY,CHAD | AdministrationAdministration | ICB MemberCoordination with LIGO and ANTARES | 0.050.10 |   |   |   |   | 0.050.10 |
|  |  | Physics Filters | WG Lead – Point Source |   |   |   | 0.25 |   | 0.25 |
|  | **FINLEY, CHAD Total** |  | **0.15** |  |  | **0.25** |  | **0.40** |
|  PO | DUMM,JONATHAN | Physics FiltersPhysics Filters | Online filterWG Lead - Muon channel |   |   |  |  0.150.25 |   | 0.150.25 |
|  | **DUMM, JONATHAN Total** |  |  |  |  | **0.40** |  | **0.40** |
|  GR | AHRENS,MARYON | Physics Filters | PhD-related work |   |   |   | 0.10 |   | 0.10 |
|   | **AHRENS, MARYON Total** |  |  |  |  | **0.10** |  | **0.10** |
|  | FLIS,SAMUEL | Simulation Programs | DOM simulation |   |   |   |  | 0.15 | 0.15 |
|   | **FLIS, SAMUEL Total** |  |  |  |  |  | **0.15** | **0.15** |
|   | SU GR | Detector Monitoring | Detector Monitoring |   | 0.06 |   |   |   | 0.06 |
|  | **SU GR Total** |  |  | **0.06** |  |  |  | **0.06** |
| **SU Total** |  |  | **0.30** | **0.06** |  | **1.00** | **0.15** | **1.51** |

**Faculty:**

Klas Hultqvist – (0.60 FTE for IceCube) - Institution lead, ICB member (0.05), WG Diffuse & atm. (0.25)

Christian Walck - (0.30 FTE for IceCube) – Publications Bookkeeping (0.10)

Christian Bohm - (0.10 FTE for IceCube)

Chad Finley – (0.75 FTE for IceCube) – ICB Member (0.05), WG point source (0.25), coordination with LIGO and ANTARES (0.1)

**Postdocs:**

Jonathan Dumm - (0.8 FTE for IceCube) - Online filter (0.15), WG muon channel (0.25)

**Ph.D. Students:**

Maryon Ahrens – (0.50 FTE for IceCube) *–* Monitoring

 Thesis/Analysis topics: Point sources

Samuel Flis – (0.50 FTE for IceCube) – DOM simulation (0.10), Gen2 cascades(0.10)

 Thesis/Analysis topics: Dark Matter, HEX

**Diploma/Master Students:**

Milad Chabo