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

**Scope of Work**

**Uppsala University**

**Olga Botner**

**Ph.D Scientists** (Faculty Scientist/Post Doc Grads): **5** (3 2 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 | BOTNER, OLGA | Administration | Outreach | 0.05 |  |  |  |  | 0.05 |
|  |  |  | Spokesperson | 0.30 |  |  |  |  | 0.30 |
|  |  |  | ExecCom Member | 0.20 |  |  |  |  | 0.20 |
|  | **BOTNER, OLGA Total** | |  | **0.55** |  |  |  |  | **0.55** |
|  | 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 |
|  |  | Speakers Comm member | 0.10 |  |  |  |  | 0.10 |
|  | TFT Coordination | TFT Board member |  |  |  | 0.10 |  | 0.10 |
|  | **HALLGREN, ALLAN Total** | |  | **0.15** |  |  | **0.10** |  | **0.25** |
| SC | BOERSMA, DAVID | Reconstruction/ Analysis Tools | Reconstruction Coordinator |  |  |  |  | 0.20 | 0.20 |
|  |  | Core Software | Maintain Reconstruction Framework |  |  | 0.10 |  |  | 0.10 |
|  |  | Physics Filters | Maintain Moon shadow and Galactic center filters |  |  |  | 0.15 |  | 0.15 |
|  | **BOERSMA, DAVID Total** | |  |  |  | **0.10** | **0.15** | **0.20** | **0.45** |
| GR | HENRIC TAAVOLA | Computing Resources | Computing resources |  |  | 0.20 |  |  | 0.20 |
|  | UU GR | Detector Monitoring, | Monitoring Shifts |  | 0.03 |  |  |  | 0.03 |
|  | UU GR | Physics filters | Filter maintenance |  |  |  | 0.15 |  | 0.15 |
|  | **GR Total** | |  |  | **0.03** | **0.20** | **0.15** |  | **0.38** |
| **UU Total** | |  |  | **0.70** | **0.03** | **0.30** | **0.75** | **0.20** | **1.98** |

**Faculty:**

Olga Botner – Institution lead, IceCube Spokesperson, ExecCom, Outreach, Mentoring students

Allan Hallgren – SpeakersCom, ICB, TFT Board Member, Outreach, Mentoring students

Carlos de los Heros – WIMP-wg lead, TFT board member

**Scientists and Postdocs:**

David Boersma – Reconstruction Coordinator, develop Moon shadow and Galactic center filters

Analysis topics: Galactic center, Moon shadow

Sebastian Euler – (Started in September 2013 a postdoc position)

Analysis topics: Galactic center, Oscillations

**Ph.D. Students:**

Henric Taavola – GRID computing 20%

Thesis/analysis topics: Galactic center, low energy cascades

Strom Rickard – online filter development and testing

Thesis/analysis topics: Full sky starting

**Diploma/Master Students:**

**General:**

The Uppsala group uses Swedish GRID resources for IceCube activities; this usage could be extended.