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

**Scope Of Work**

**Universite Libre de Bruxelles**

**Kael Hanson**

**Ph.D Scientists** (Faculty Scientist/Post Doc Grads): **2** (1 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 | HANSON, KAEL | Administration | ExecCom member | 0.20 |  |  |  |  | 0.20 |
|  | Administration | South Pole On Ice Lead Jan 2014 | 0.10 |  |  |  |  | 0.10 |
|  | Engineering and R&D Support | EMI/R&D | 0.10 |  |  |  |  | 0.10 |
|  | **HANSON, KAEL Total** | |  | **0.40** |  |  |  |  | **0.40** |
| PO | O’Murchadha, Aongus | Engineering and R&D Support | EMI Measurements | 0.10 |  |  |  |  | 0.10 |
|  | **PO Total** | |  | **0.10** |  |  |  |  | **0.10** |
| CS | Amary, Samir | Simulation Production | Computer Cluster - simulation |  |  | 0.10 |  |  | 0.10 |
|  | **PO Total** | |  |  |  | **0.10** |  |  | **0.10** |
| GR | ULB GR | Monitoring | Monitoring Shifters |  | 0.12 |  |  |  | 0.12 |
| Heereman, David | Data Acquisition | Develop Hit Spooling for Supernova & others |  | 0.50 |  |  |  | 0.50 |
| Pinat, Elisa | Data Acquisition | DAQ |  | 0.50 |  |  |  | 0.50 |
| **ULB GR Total** | |  |  | **1.12** |  |  |  | **1.12** |
| **ULB Total** | |  |  | **0.50** | **1.12** | **0.10** |  |  | **1.72** |

CHANGES RELATIVE TO PREVIOUS YEAR:

Kael Hanson: 10% faculty @ ULB – move to UW Madison September 2014

Juan Antonio Aguilar: new faculty to begin October / November 2014

Rachel Simoni: Departure to Institute A. P. (Amsterdam) September 2014

Thomas Meures: Graduation PhD October 2014

Gwenhaël de Wasseige: Move to VUB for PhD program September 2014

**Faculty:**

Kael Hanson (PI – ULB): On-Ice Lead @ Pole (Jan 2014); ExecCom; Next-Gen IceCube / PINGU Communication Systems Development

**Scientists/post-docs:**

A. O’Murchadha – ARA/IceCube

Analysis topics: ARA data analysis

**Graduate Students**

David Heereman - IceCube Supernova Hitspooling

Thesis/Analysis topics: Supernova detection

Elisa Pinat - Next-Gen IceCube / PINGU Communication Systems Development

Thesis/Analysis topics: IceCube HE Extensions

**Computer Scientists:**

Samir Amary – Computer Scientist