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

**Scope of Work**

**University of Gent**

**Dirk Ryckbosch**

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

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Labor Cat.** | **Names** | **WBS L3** | **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 |
| SC | UGENT SC | Engineering and R&D Support | Acoustic R&D Support | 0.05 |   |   |   |   |  | 0.05 |
|   | **UGENT SC Total** |  | **0.05** |  |  |  |  |  | **0.05** |
| GR | UGENT GR | Detector Monitoring | Detector Monitoring |   | 0.03 |   |   |   |  | 0.03 |
|   |   | Engineering and R&D Support | Acoustic R&D Support | 0.05 |   |   |   |   |  | 0.05 |
|   |   | Simulation Software | Support IceTop Simulations, IceTop Calibrations, IceTop Reconstruction |   |   |   |   | 0.40 |  | 0.40 |
|   | **UGENT GR Total** |  | **0.05** | **0.03** |  |  | **0.40** |  | **0.48** |
| **UGENT Total** |  |  | **0.10** | **0.03** |  |  | **0.40** |  | **0.53** |

**Faculty:**

Dirk Ryckbosch Institutional lead

**Scientists and Post Docs:**

Mathieu Labare Tau-neutrino simulations

 Analysis topics: Tau-neutrinos

**Ph.D. Students:**

Matthias Vraeghe DOM Calibration

 Thesis/Analysis topics: Tau-neutrinos: double-bang events

Sam De Ridder IceTop simulations, IceTop-InIce reconstructions

 Thesis/Analysis topics: Cosmic ray energy spectrum and composition; 3-year analysis; inclined showers

Sander Vanheule Thesis/Analysis topics: PINGU detector development

Ward Van Driessche Thesis/Analysis topics: BSM search for exotic non-standard charged particles

**Diploma/Master Students:**