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

**Universität Mainz**

**Lutz Köpke**

**Ph.D Scientists** (Faculty Scientist/Post Doc Grads): **1** (1 0 6)

**Scope of Work**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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 | Köpke, Lutz | Administration | Supernova group co. | 0.25 |  |  |  |  | 0.25 |
|  | **Köpke, Lutz Total** | |  | **0.25** |  |  |  |  | **0.25** |
| GR | Kroll, Gösta | SuperNova Operations | SuperNova Operations |  | 0.10 |  |  |  | 0.10 |
|  | **Kroll, Gösta Total** | |  |  | **0.10** |  |  |  | **0.10** |
|  | BAUM, VOLKER | SuperNova  Operations | SuperNova  Operations |  | 0.50 |  |  |  | 0.50 |
|  | **BAUM, VOLKER Total** | | |  | **.0.50** |  |  |  | **0.50** |
|  | EBERHARD, BENJAMIN | SuperNova  Operations | SuperNova  Operations |  | 0.50 |  |  |  | 0.50 |
|  | **EBERHARD, BENJAMIN Total** | | |  | **0.50** |  |  |  | **0.50** |
|  | WIEBE, KLAUS | Reconstr. tools | Angular res. cascades |  |  |  |  | 0.20 | 0.20 |
|  |  | Simulation Prod. | Simulation Prod. |  |  | 0.10 |  |  | 0.10 |
|  | **WIEBE, KLAUS Total** | |  |  |  | **0.10** |  | **0.20** | **0.30** |
|  | UM GR | Detector Monitoring | Detector Monitoring |  | 0.05 |  |  |  | 0.05 |
|  | **UM GR Total** | |  |  | **0.05** |  |  |  | **0.05** |
| **UM Total** | |  |  | **0.25** | **1.15** | **0.10** |  | **0.20** | **1.70** |

**Faculty:**

Lutz Köpke – SN working group coordinator

(Prof. Sander reached his retirement age; a new professorship, probably with emphasis on PINGU and IceCube should be filled this year. The MoU will then be modified to reflect this change).

**Ph.D. Students:**

Gösta Kroll – SN DAQ

Thesis/Analysis topic: Search for Galactic Supernovae

Volker Baum – SN DAQ

Thesis/Analysis topics: Search for Low-Energy GRBs

Benjamin Eberhard – SN DAQ

Thesis/Analysis topics: SN Position and Energy

Kai Schatto – PPC tables

Thesis/Analysis topics: Active Galaxy stacking

Klaus Wiebe – simulation production, cascade reconstruction

Thesis/Analysis topics: Solar Wimps with Cascades

Markus Archinger – Pingu R&D Hardware Development

Thesis/Analysis topics: not yet known

**Diploma/Master Students:**

Anna SteuerThesis/Analysis topics: Earth Wimps with Cascades

Krystina Sand PMT tests for Pingu R&D WOM project