**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** |
|  | BAUM, VOLKER | SuperNova  Operations | SuperNova  Operations |  | 0.50 |  |  |  | 0.50 |
|  | **BAUM, VOLKER Total** | | |  | **0.50** |  |  |  | **0.50** |
|  | EBERHARDT, BENJAMIN | SuperNova  Operations | SuperNova  Operations |  | 0.50 |  |  |  | 0.50 |
|  | **EBERHARDT, BENJAMIN Total** | | |  | **0.50** |  |  |  | **0.50** |
|  | WIEBE, KLAUS | Reconstr. tools | Angular res. cascades |  |  |  |  | 0.20 | 0.20 |
|  | **WIEBE, KLAUS Total** | |  |  |  |  |  | **0.20** | **0.20** |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | SCHATTO, KAI | Reconstruction tools | Angular res. muons | 0.10 | 0.10 | | | | | | | | | | |
|  | **SCHATTO, KAI Total** | |  |  |  |  |  | **0.10** | **0.10** |
|  | UM GR | Detector Monitoring | Detector Monitoring |  | 0.05 |  |  |  | 0.05 |
|  | **UM GR Total** | |  |  | **0.05** |  |  |  | **0.05** |
| **UM Total** | |  |  | **0.25** | **1.05** |  |  | **0.30** | **1.60** |

**Faculty:**

Lutz Köpke – SN working group coordinator

Sebastian Boeser (from 2015)

**Ph.D. Students:**

Gösta Kroll – SN DAQ (advising only)

Thesis/Analysis topic: Search for Galactic Supernovae

Volker Baum – SN DAQ

Thesis/Analysis topics: Search for Low-Energy GRBs

Benjamin Eberhardt – SN DAQ

Thesis/Analysis topics: SN Position and Energy

Kai Schatto – Muon angular reconstruction

Thesis delivered July, 2014

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

Gerald Krückl Thesis/Analysis topics: sterile neutrinos with starting tracks