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

**Scope of Work**

**Universität Bochum**

**Julia Tjus**

**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 | TJUS, JULIA | Administration | Pubcom member | 0.10 |   |   |   |   | 0.10 |
|  | Simulation Programs | Development PROPOSAL simulation software |  |  |   |   |  0.10 | 0.10 |
|   | **BECKER, JULIA Total** |  | **0.10** |  |  |  | **0.10** | **0.20** |
| GR | Schöneberg, Sebastian | Simulation Programs | Monte Carlo Production |   |   |   |   | 0.10 | 0.10 |
|   | **Schöneberg, Sebastian Total** |  |  |  |  |  | **0.10** | **0.10** |
|  | Saba, Isaac | Detector Monitoring | Detector Monitoring |   |  0.03 |   |   |  | 0.03 |
|   | **Saba, Isaac Total** |  |  | **0.03** |  |  |  | **0.03** |
| **BOCHUM Total** |  |  | **0.10** | **0.03** |  |  | **0.20** | **0.33** |

**Faculty:**

Julia Tjus

**Postdoc:**

 Björn Eichmann

**Ph.D. Students:**

Sebastian Schöneberg: Simulation Programs: investigation of systematic effects in the

atmospheric neutrino flux, Monte Carlo Production.

 Thesis/Analysis topics: Precision-Simulation of the high-energy atmospheric neutrino and muon spectra

Isaac Saba: Detector Monitoring

 Thesis/Analysis topics: Prediction of steady-state high-energy neutrino fluxes from AGN

**Diploma/Master Students:**

Lisa Unger: development of Moni2 (0.1 FTE)