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

**Scope of Work**

**Universität Bochum**

**Julia Tjus**

**Ph.D Scientists** (Faculty Scientist/Post Doc Grads): **2** (1 1 3)

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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 |
| KE | TJUS, JULIA | Simulation Software | Development PROPOSAL simulation software |  |  |   |   |  0.10 |  | 0.10 |
|   | **TJUS, JULIA Total** |  |  |  |  |  | **0.10** |  | **0.10** |
| GR | Schöneberg, Sebastian | Simulation Software | Developing / maintaining ANFlux |  |  |  |  | 0.10 |  | 0.10 |
|   | **Schöneberg, Sebastian Total** |  |  |  |  |  | **0.10** |  | **0.10** |
|  | Kroll, Mike | Detector Monitoring | Detector Monitoring |   |  0.03 |   |   |  |  | 0.03 |
|  | **Kroll, Mike Total** |  |  | **0.03** |  |  |  |  | **0.03** |
|  | Bos, Fabian | Online Filter (Pnf) | Moon filter |  | 0.10 |  |  |  |  | 0.10 |
|   | **Bos, Fabian Total** |  |  | **0.10** |  |  |  |  | **0.10** |
| **BOCHUM Total** |  |  |  | **0.13** |  |  | **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. Developing and maintaining ANFlux.

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

Mike Kroll: Detector Monitoring

 Thesis/Analysis topics: Development of a simulation software to model the sun shadow

Fabian Bos: Moon Filter

 Thesis/Analysis topics: The shadow of the moon and the sun