**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** | **Grand Total** |
| Program Management | Detector Maintenance & Operations | Computing & Data Management | Triggering & Filtering | Data Quality, Reconstruction & Simulation Tools |
| KE | TJUS, JULIA | Simulation Programs | Development PROPOSAL simulation software |  |  |  |  | 0.10 | 0.10 |
|  | **TJUS, JULIA Total** | |  |  |  |  |  | **0.10** | **0.10** |
| GR | Schöneberg, Sebastian | Simulation Programs | 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 | Physics Filters | Moon filter |  |  |  | 0.10 |  | 0.10 |
|  | **Bos, Fabian Total** | |  |  |  |  | **0.10** |  | **0.10** |
| **BOCHUM Total** | |  |  |  | **0.03** |  | **0.10** | **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: Neutrino-nucleon interactions within IceCube

Fabian Bos: Moon Filter

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