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

**Scope of Work**

**Universität Bochum**

**Julia Tjus**

**Ph.D Scientists** (Faculty Scientist/Post Doc Grads): **1** (1 0 3)

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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 | Kroll, Mike | Detector Monitoring | | Detector Monitoring |  | 0.03 |  |  |  |  | 0.03 |
|  | **Kroll, Mike Total** | | |  |  | **0.03** |  |  |  |  | **0.03** |
|  | Tenholt, Frederik | | Online Filter (Pnf) | Moon/Sun Filter |  | 0.05 |  |  |  |  | 0.05 |
|  |  | | Online Filter (Pnf) | Muon Filter |  | 0.10 |  |  |  |  | 0.10 |
|  | **Tenhold, Frederik Total** | | |  |  | **0.15** |  |  |  |  | **0.15** |
| **BOCHUM Total** | |  | |  |  | **0.18** |  |  | **0.10** |  | **0.28** |

**Faculty:**

Julia Tjus

**Ph.D. Students:**

Mike Kroll: Detector Monitoring

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

Frederik Tenholt: Moon and Muon Filter

Thesis/Analysis topics: Muon energy spectra

Mehmet Gündüz: Detector Monitoring

Thesis/Analysis topics: Galactic Center searches with IceCube and IceAct