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

**Scope of Work**

**Stony Brook University**

**Joanna Kiryluk**

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

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Labor Cat.** | **Names** | **WBS Level 3** | **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  | Joanna Kiryluk | Physics Filters | Cascade WG chair |  |   |   | 0.25 |   | 0.25 |
|  |  | Administration | Simulation Prod. Comm member, ICB member | 0.05 |   |   |   |   | 0.05 |
|  |  | Detector Monitoring | Bad Doms |  | 0.05 |   |   |   | 0.05 |
|  | **Joanna Kiryluk Total** |  | **0.05** |  **0.05** |  | **0.25** |  | **0.35** |
| GR | Yiqian Xu | Physics Filters | Cascade filters |   |   |   |  0.15 |   | 0.15 |
|  |  | Detector Monitoring | Detector Monitoring |   | 0.05 |   |   |  | 0.05 |
| Reconstruction Analysis Tools | Flashers/Standard Candle |  |   |  |  | 0.10  |  0.10 |
|  | **Yiqian Xu Total** |  |  | **0.05** |  | **0.15** | **0.10** | **0.30** |
| GR   | Hans Niederhausen  | Reconstruction Analysis Tools | Cascade reconstruction |   |  |   |   | 0.05 | 0.05 |
| Physics Filters  | Low Energy |  |  |  | 0.10 |  |  0.10 |
| Detector Monitoring | Moni 2.0 software development  |  | 0.15 |  |  |  |  0.15 |
| **Hans Niederhausen Total**  |  |  | **0.15** |  | **0.10** |  **0.05** | **0.30** |
| **Stony Brook University Total** |  | **0.05** | **0.25** |  | **0.50** | **0.15** |  **0.95** |  |  |

**Faculty:**

Joanna Kiryluk – Cascade WG lead, ICB member, Simulation production coordination committee member, Bad Doms (issues, monitoring)

**Post Docs:**

Mariola Lesiak-Bzdak:

 Analysis: diffuse neutrino flux searches using cascades

**\*Will leave Stony Brook University in November, 2014** (no service work)

**PhD Students:**

Hans Niederhausen – Low energy filter, monitoring software (Moni 2.0), cascade reconstruction

Thesis/Analysis topics: Atmospheric neutrino induced cascade flux measurement

 Yiqian Xu – cascade filter, flasher/standard candle, detector monitoring

 Thesis/Analysis topics: