**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 1)

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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 |
|  |  | Reconstruction/Analysis tools | BadDomList software maintenance |  |  |   |   | 0.05 | 0.05 |
|  | **Joanna Kiryluk Total** |  | **0.05** |  **0.05** |  | **0.25** | **0.05** | **0.40** |
| PO | Mariola Lesiak-Bzdak | Physics Filters | Cascade filters |   |   |   |  0.20 |   | 0.20 |
|  |  | Detector Monitoring | Detector Monitoring |   | 0.05  |   |   |   | 0.05 |
|  | **Mariola Lesiak-Bzdak Total** |  |  | **0.05** |  | **0.20** |  | **0.25** |
| GR   | Hans Niederhausen  | Reconstruction Analysis Tools | Flashers |   |  |   |   | 0.10 | 0.10 |
| Reconstruction / Analysis Tools | Standard Candle |  |  |  |  | 0.10 |  0.10 |
| Reconstruction / Analysis tools | Cascade reconstruction |  |  |  |  | 0.10 |  0.10 |
| **Hans Niederhausen Total** |  |  |  |  |  |  **0.30** | **0.30** |
| **Stony Brook University Total** |  | **0.05** | **0.10** |  | **0.45** | **0.35** |  **0.95** |  |  |

**Faculty:**

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

**Post Docs:**

Mariola Lesiak-Bzdak:

Service: cascade filters (IC86 online and offline processing, Level3 filtering), data verification and cascade reconstruction with flashers, BadDomList software maintenance

Analysis: diffuse neutrino flux searches using cascades

**PhD Student:**

Hans Niederhausen – cascade reconstruction, standard candle, detector monitoring

Thesis/Analysis topics: