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

**Scope of Work**

**Stony Brook University**

**Joanna Kiryluk**

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

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| **Labor Cat.** | **Names** | **WBS Level 3** | **Tasks** | **Funds Source** | **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 |
|  |  | Administration | Member of ICC, ICB member, Speakers committee chair | Inst In-Kind | 0.1 |   |   |   |   |  | 0.1 |
|  |  | Education and Outreach  | Masterclasses  | Inst In-Kind | 0.05 |  |  |  |  |  | 0.05 |
|  | **Joanna Kiryluk Total** |  |  | **0.15** |  |  |  |  |  | **0.15** |
| GR | Yiqian Xu | Online Filter (Pnf) | Cascade Filter | Base Grants |   |  0.05 |   |  |   |  | 0.05 |
|  |  | Offline Data Production  | Cascade L3 scripts | Base Grants |  |  |  | 0.10 |  |  | 0.10 |
|  |  | Detector Monitoring | Detector Monitoring | Base Grants |   | 0.05 |   |   |  |  | 0.05 |
|  |  | Offline Data Production | Pass2 verification |  |  |  |  | 0.10 |  |  |  0.10 |
|  | **Yiqian Xu Total** |  |  |  | **0.10** |  | **0.20** |  |  | **0.30** |
| **Stony Brook University Total** |  |  | **0.15** | **0.10** |  | **0.20** |  |  |  **0.45** |  |  |

**Faculty:**

Joanna Kiryluk – Speakers Committee chair, ICB member, Simulation production coordination committee member

**PhD Students:**

 Yiqian Xu – cascade filter, detector monitoring

Thesis/Analysis topics: Neutrino-nucleon cross section measurement using all-sky cascades (multi-year cascade data)