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

**Scope of Work**

**Drexel University**

**Naoko Kurahashi Neilson**

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

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| **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 | Naoko Kurahashi Neilson | Physics Filter | | Point Source WG Lead | |  |  |  | | 0.25 | |  | | 0.25 | |
|  | Administration | | ICB member | | 0.05 |  |  | |  | |  | | 0.05 | |
|  | Physics Filter | | Splitting – Q/P frame and coincidence | |  |  |  | | 0.05 | |  | | 0.05 | |
|  | **Naoko Kurahashi Neilson Total** | | |  | | **0.05** |  |  | | **0.30** | |  | | **0.35** | |
| **Drexel University Total** | | |  | |  | **0.05** | | |  | | **0.30** | |  | | **0.35** |

**Faculty:**

Naoko Kurahashi Neilson

M&O

* Working group co-leader for Point Source analysis channel
* Development/maintenance of event splitting modules, particularly for the muon channel but for all events

Analysis

* Point source analysis focused on the southern sky, particularly using contained cascades and starting tracks
* Diffuse source analysis such as galactic plane and other large regions