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

**Scope of Work**

**University of Rochester**

**Segev BenZvi**

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

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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 | BenZvi,Segev | Supernova System | Supernova DAQ |  | 0.15  |   |   |   | 0.15 |
|  | Simulation Programs | Supernova and transient simulations |  |   |   |   |  0.15 | 0.15 |
|  | Reconstruction / Analysis Tools | Supernova light curve and transient monitoring tools |  |   |   |   |  0.15 | 0.15 |
|   | **Segev BenZvi Total** |  |  | **0.15** |  |  | **0.30** | **0.45** |
| GR | Cross,Robert | Supernova System | Supernova DAQ |   | 0.20 |   |   |   | 0.20 |
|  | Simulation Programs | Supernova and transient simulations |   |  |   |   | 0.20 | 0.20 |
|   | **Robert Cross Total** |  |  | **0.20** |  |  | **0.20** | **0.40** |
| **Institution Name Total** |  |  | **0.35** |  |  | **0.50** | **0.85** |

**Faculty:**

Segev BenZvi – Supernova DAQ and simulation tools; SNDAQ release management and alert monitoring; analysis tools for supernova and transient light curves

**Grad Students:**

Robert Cross – Supernova DAQ development and release management. Development of fast non-parametric algorithms for sub-threshold transient searches

Thesis/Analysis Topic: Sensitivity to Supernova Signals in IceCube