IceCube Institutional Memorandum Of Understanding (MOU)

Scope of Work

DPNC Geneva

Teresa Montaruli

Ph.D Scientists (Faculty Scientist/Post Doc Grads): 3 (1 2 3)

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Labor Cat. | Names | WBS L3 | Tasks | 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 |
| KE | **MONTARULI, TERESA** | WBS 2.1.1 Administration | ICB memberUHECR’neutrino coordinator | 0.15 |  |  |  |  |  | 0.15 |
|  | WBS 2.5.3 Education & Outreach | Responsible of Analysis Output of the group, Advising of students | 0.10 |  |  |  |  |  | 0.10 |
|  | MONTARULI, TERESA Total  | 0.25 |  |  |  |  |  | 0.25 |
| PO | **IMEN AL SAMARAI** | WBS 2.5.4 Science Support Tools  | Update of Neutrinoflux |  |  |  |  | 0.15 |  | 0.15 |
|  |  | WBS 2.5.3 Reconstruction | Offline filter quality and student mentoring |  |  |  |  | 0.10 |  | 0.10 |
| AL SAMARAI IMEN Total |  |  |  |  | 0.25 |  | 0.25 |
| GR | **ASEN****CHRISTOV** | WBS 2.5.3 Reconstruction  | Monthly time dependent search  |  |  |  |  | 0.10 |  | 0.10 |
|  |
|  |  ASEN CHRISTOV Total |  |  |  |  | 0.10 |  | 0.10 |
|  | **STEPHANIE BRON**  | WBS 2.2.4 Detector monitoring | Detector monitoring |  | 0.05 |  |  |  |  | 0.05 |
|  | WBS 2.5.3 Reconstruction | L3Muon filter and reconstruction for muon diffuse searches |  |  |  |  | 0.75 |  | 0.75 |
|  |  STEPHANIE BRON Total |  | 0.05 |  |  | 0.75 |  | 0.80 |
|  | TESSA CARVER | Detector monitoring | Detector monitoring |  | 0.05 |  |  |  |  | 0.05 |
| WBS 2.1.4 Education & Outreach | Education & Outreach | 0.05 |  |  |  |  |  | 0.05 |
| WBS 2.5.3 Reconstruction WBS 2.4.2 Simulation production | L3 filter and reconstruction for muon point-source searchesSimulation production verification |  |  |  | 0.10 | 0.40 |  | 0.400.10 |
|  | TESSA CARVER Total | **0.05** | **0.05** |  | **0.10** | **0.40** |  | **0.60** |
| DPNC Total DPNC Total | 0.30 | 0.10 |  | 0.10 | 1.50 |  | 2.00 |

Faculty:

Teresa Montaruli – collaboration board, coordination the UHECR-neutrino working group, supervising DPNC analysis

Scientists and Post Docs:

 Imen Al Samarai - Postdoc, supervising of students, neutrino flux update.

Asen Christov should defend his Thesis on Nov. 1, 2016.

Ph.D. Students:

Asen Christov: AGN flare analysis, monthly flare analysis, UHECR-HESE analysis, PS L3-L4 filtering.

 Thesis/analysis topics: Searches for cosmic neutrinos in coincidence with UHECRs and online analysis of AGN flares with IceCube.

Tessa Carver- Monitoring shifts, PS L3-L4, PS-diffuse L4 comparison, PSLab SkyLab comparison. Started in Aug. 2015.

 Thesis/analysis topics: Point-source searches with multiple years of IceCube data and time dependent searches.

Stephanie Bron: Monitoring shifts

Diploma/Master Students: