

| WBS                                           | Year 1: 7/17-6/18 |       |       |       |       |       |       |       |       |       |       |       |       |       | Year 2: 7/18-6/19 |       |       |       |       |       |       |       |       |       |       |       |       |       | Year 3: 7/19-6/20 |       |       |       |       |       |       |       |  |  |  |  |  |  |
|-----------------------------------------------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|--|
|                                               | 07.17             | 08.17 | 09.17 | 10.17 | 11.17 | 12.17 | 01.18 | 02.18 | 03.18 | 04.18 | 05.18 | 06.18 | 07.18 | 08.18 | 09.18             | 10.18 | 11.18 | 12.18 | 01.19 | 02.19 | 03.19 | 04.19 | 05.19 | 06.19 | 07.19 | 08.19 | 09.19 | 10.19 | 11.19             | 12.19 | 01.20 | 02.20 | 03.20 | 04.20 | 05.20 | 06.20 |  |  |  |  |  |  |
| NEXUS and TUNL Measurements                   |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |  |  |  |  |  |  |
| 1.1.1 Small Test Device Calibration           |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |  |  |  |  |  |  |
| 1.1.1.1 GEANT4 and DMC Modelling              |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |  |  |  |  |  |  |
| 1.1.1.2 DAQ for backing detectors             |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |  |  |  |  |  |  |
| 1.1.1.3 Backing Detector Commissioning        |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |  |  |  |  |  |  |
| 1.1.1.4 Detector Comissioning on ADR          |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |  |  |  |  |  |  |
| 1.1.1.5 Tests of ADR + Backing Detectors      |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |  |  |  |  |  |  |
| 1.1.1.6 TUNL Si and Ge Det Measurements       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |  |  |  |  |  |  |
| 1.1.1.7 Analysis of TUNL Measurements         |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |  |  |  |  |  |  |
| 1.1.2 NEXUS D-D Detector Calibration          |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |  |  |  |  |  |  |
| 1.1.2.1 DD Generator Commisioning             |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |  |  |  |  |  |  |
| 1.1.2.2 NEXUS prep for HV small det           |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |  |  |  |  |  |  |
| 1.1.2.3 NEXUS small det Measurements          |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |  |  |  |  |  |  |
| 1.1.2.4 Analysis of NEXUS small det data      |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |  |  |  |  |  |  |
| Pre-Production Tower Arrives at               |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |  |  |  |  |  |  |
| 1.1.2.5 NEXUS                                 |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |  |  |  |  |  |  |
| 1.1.2.6 Commissioning Tower at NEXUS          |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |  |  |  |  |  |  |
| 1.1.2.7 First Run HV Si detector              |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |  |  |  |  |  |  |
| 1.1.2.8 Voltage Scan Studies (Si)             |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |  |  |  |  |  |  |
| 1.1.2.9 First Run HV Ge Detector              |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |  |  |  |  |  |  |
| 1.1.2.10 Voltage Scan Studies (Ge)            |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |  |  |  |  |  |  |
| 1.1.2.11 Data analysis                        |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |  |  |  |  |  |  |
| 1.1.3 CUTE and NEXUS prep                     |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |  |  |  |  |  |  |
| 1.1.3.1 Wiring and Warm Elec Fab              |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |  |  |  |  |  |  |
| 1.1.3.2 Wiring and Warm Elec Install at CUTE  |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |  |  |  |  |  |  |
| Wiring and Warm Elec Install at               |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |  |  |  |  |  |  |
| 1.1.3.3 NEXUS                                 |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |  |  |  |  |  |  |
| 1.1.3.4 DAQ Software Development              |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |  |  |  |  |  |  |
| 1.1.3.5 Analysis Software Dev                 |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |  |  |  |  |  |  |
| CUTE Measurements                             |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |  |  |  |  |  |  |
| 1.2 Performance Opt. & Backgrounds            |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |  |  |  |  |  |  |
| 1.2.1 Commissioning Tower at CUTE             |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |  |  |  |  |  |  |
| 1.2.2 Test 1 (neutralization/leakage studies) |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |  |  |  |  |  |  |
| 1.2.3 Test 2 (surface rejection studies)      |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |  |  |  |  |  |  |
| 1.2.4 Test 3 (ER/NR discrimination studies)   |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |  |  |  |  |  |  |
| 1.2.5 HVT1 Installation at CUTE               |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |  |  |  |  |  |  |
| 1.2.5 HVT1 Performance Tests                  |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |  |  |  |  |  |  |
| 1.3 Science                                   |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |  |  |  |  |  |  |
| 1.3.1 HVT1 Science Run                        |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |  |  |  |  |  |  |
| 1.3.2 Data Analysis and Publication           |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |  |  |  |  |  |  |
| 1.4 SNOLAB Commissioning                      |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |  |  |  |  |  |  |
| 1.4.1 HVT1 SNOBOX Install                     |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |       |       |       |       |       |       |                   |       |       |       |       |       |       |       |  |  |  |  |  |  |