| Run | Beam | Ebeam | Target | comment | b se | Brho | p | E(Si) | E(CsI) | d | E(si) | E(CsI) | t | E(Si) | E(CsI) | 3He | E(Si) | E(CsI) | 4He |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 78 | 6He, He | 80 | 12C | | 1 | 3.9578 | 574.21 | 0.737 | 28.41 | 343.71 | 1.396 | 54.99 | 240.28 | 2.399 | 106.1 | 868.1 | 4.061 | 161.85 | 691.13 |
| 79 | 6He, He | 80 | 12C | | 1 | 3.9578 | 574.21 | | | 343.71 | | | 240.28 | | | 868.1 | | | 691.13 |
| 80 | 6He, He | 80 | 12C | | 1 | 3.9578 | 574.21 | | | 343.71 | | | 240.28 | | | 868.1 | | | 691.13 |
| 81 | 6He, He | 80 | 197Au | | 1 | 3.9578 | 574.21 | 197Au | | 343.71 | | | 240.28 | | | 868.1 | | | 691.13 |
| 82 | 6He, He | 80 | 197Au | | 1 | 3.9578 | 574.21 | 197Au | | 343.71 | | | 240.28 | | | 868.1 | | | 691.13 |
| 83 | 6He, He | 80 | 197Au | 45 He8 | 1 | 3.9578 | 574.21 | 197Au | | 343.71 | | | 240.28 | | | 868.1 | | | 691.13 |
| 84 | 6He, He | 80 | 197Au | 45 He8 | 1 | 3.9578 | 574.21 | 197Au | | 343.71 | | | 240.28 | | | 868.1 | | | 691.13 |
| 85 | 6He, He | 80 | 197Au | 45 He8 | 1 | 3.9578 | 574.21 | 197Au | | 343.71 | | | 240.28 | | | 868.1 | | | 691.13 |
| 86 | 6He, He | 80 | 12C | | 1 | 3.9578 | 574.21 | | | 343.71 | | | 240.28 | | | 868.1 | | | 691.13 |
| 87 | 6He, He | 80 | 12C | | 1 | 3.9578 | 574.21 | | | 343.71 | | | 240.28 | | | 868.1 | | | 691.13 |
| 117 | 4He, He | 111.85 | 12C | | 2 | 3.1046 | 383.18 | 0.877 | 33.961 | 218.18 | 1.916 | 82.36 | 150.16 | 3.455 | 146.7 | 560.73 | 5.294 | 555.4 | 438.86 |
| 118 | 6He, He | 50 | 12C | 6He wedge | 2 | 3.1046 | 383.18 | | | 218.18 | | | 150.16 | | | 560.73 | | | 438.86 |
| 119 | 6He, He | 50 | 12C | | 2 | 3.1046 | 383.18 | | | 218.18 | | | 150.16 | | | 560.73 | | | 438.86 |
| 120 | 8He, He | 27.34 | 12C | 8He wedge | 2 | 3.1046 | 383.18 | | | 218.18 | | | 150.16 | | | 560.73 | | | 438.86 |
| 121 | 8He, He | 27.34 | 197Au | | 2 | 3.1046 | 383.18 | 197Au | | 218.18 | | | 150.16 | | | 560.73 | | | 438.86 |
| 122 | 4He, He | 70 | 12C | | 3 | 2.3922 | 242.59 | 1.125 | 44.78 | 132.4 | 2.789 | 129.6 | 90.091 | 5.24 | 84.85 | 344.96 | 7.407 | 337.56 | 266.38 |
| 123 | 6He, He | 30 | 12C | | 3 | 2.3922 | 242.59 | | | 132.4 | | | 90.091 | | | 344.96 | | | 266.38 |
| 124 | 4He, He | 50 | 12C | | 4 | 2.06459 | 185.68 | 1.329 | 55.26 | 99.462 | 3.498 | 95.96 | 67.373 | 6.81 | 60.56 | 260.63 | 9.136 | 251.5 | 200.13 |
| 125 | 4He, He | 50 | 12C | | 4 | 2.06459 | 185.68 | | | 99.462 | | | 67.373 | | | 260.63 | | | 200.13 |
| 126 | 4He, He | 50 | 12C | | 4 | 2.06459 | 185.68 | | | 99.462 | | | 67.373 | | | 260.63 | | | 200.13 |
| 127 | 4He, He | 50 | 12C U | | 4 | 2.06459 | 185.68 | | | 99.462 | | | 67.373 | | | 260.63 | | | 200.13 |
| 128 | 4He, He | 50 | 12C U | | 4 | 2.06459 | 185.68 | | | 99.462 | | | 67.373 | | | 260.63 | | | 200.13 |
| 129 | 4He, He | 40 | 12C | 69.37 3He | 5 | 1.8418 | 150.34 | 1.531 | 68.35 | 79.565 | 4.192 | 75.37 | 53.746 | 8.39 | 45.36 | 209.25 | 10.85 | 198.4 | 160.11 |
| 134 | p | 50 | 12C U | LASSA | 6 | 1.0397 | 50.392 | 3.51 | 46.88 | 25.716 | 12.85 | 12.86 | 17.238 | 17.24 | 0 | 68.332 | 32.22 | 36.117 | 51.756 |
| 135 | p | 50 | 12C U | | 6 | 1.0397 | 50.392 | | | 25.716 | | | 17.238 | | | 68.332 | | | 51.756 |
| 136 | p | 50 | 12C | | 6 | 1.0397 | 50.392 | | | 25.716 | | | 17.238 | | | 68.332 | | | 51.756 |
| 137 | p | 50 | 12C | | 6 | 1.0397 | 50.392 | | | 25.716 | | | 17.238 | | | 68.332 | | | 51.756 |
| 138 | p | 50 | 12C | | 6 | 1.0397 | 50.392 | | | 25.716 | | | 17.238 | | | 68.332 | | | 51.756 |
| **PT** | | | | | | | | **15.55** | **115.8** | | **20.9** | **154.8** | | **24.76** | **183.4** | | **54.86** | **417.47** | |
| 17 | | | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | Calibration points present in spectra | | | | | | | | | | |

| E(Si) | E(CsI) | 6He | E(Si) | E(CsI) | 8He | E(Si) | E(CsI) |
|---|---|---|---|---|---|---|---|
| 5.554 | 235.1 | 481.53 | 9.608 | 471.9 | 367.24 | 14.91 | 352.3 |
| | | 481.53 | | | 367.24 | | |
| | | 481.53 | | | 367.24 | | |
| | | 481.53 | | | 367.24 | | |
| | | 481.53 | | | 367.24 | | |
| | | 481.53 | | | 367.24 | | |
| | | 481.53 | | | 367.24 | | |
| | | 481.53 | | | 367.24 | | |
| | | 481.53 | | | 367.24 | | |
| | | 481.53 | | | 367.24 | | |
| 7.622 | 431.2 | 300.94 | 13.92 | 287 | 228.04 | 22.91 | 205.8 |
| | | 300.94 | | | 228.04 | | |
| | | 300.94 | | | 228.04 | | |
| | | 300.94 | | | 228.04 | | |
| | | 300.94 | | | 228.04 | | |
| 11.15 | 255.2 | 180.56 | 21.48 | 159.1 | 136.22 | 36.78 | 99.43 |
| | | 180.56 | | | 136.22 | | |
| 14.05 | 186.1 | 135.03 | 28.53 | 106.5 | 101.69 | 52.2 | 49.5 |
| | | 135.03 | | | 101.69 | | |
| | | 135.03 | | | 101.69 | | |
| | | 135.03 | | | 101.69 | | |
| | | 135.03 | | | 101.69 | | |
| 16.98 | 143.1 | 107.72 | 36.38 | 71.34 | 81.041 | 81.04 | 0 |
| 51.76 | 0 | 34.551 | 34.55 | 0 | 25.92 | 25.92 | 0 |
| | | 34.551 | | | 25.92 | | |
| | | 34.551 | | | 25.92 | | |
| | | 34.551 | | | 25.92 | | |
| | | 34.551 | | | 25.92 | | |
| **62.05** | **462.3** | | **73.95** | **548.3** | | **83.63** | **619.1** |