|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **PV Experiment** | **Energy**  **(GeV)** | **Pol**  **(%)** | **I**  **(µA)** | **Target** | **Apv**  **(ppb)** | **Charge Asym**  **(ppb)** | **Position Diff**  **(nm)** | **Angle Diff**  **(nrad)** | **Size Asym(δσ/σ)** | **Refs.** |
| **HAPPEx-I**  **1998 – 1999** | 3.3 | 38.8  68.8 | 100  40 | 1H  (15 cm) | 15,050 | 200 | 12 | 3 | <10-3 | [1, 2, 3] |
| **G0-Forward**  **2003 – 2004** | 3.0 | 73.7 | 40 | 1H  (20 cm) | 3,000-40,000 | 300±300 | 7±4 | 3±1 | <10-3 | [4] |
| **HAPPEx-II**  **2004 – 2005** | 3.03 | 87.1 | 55 | 1H, 4He  (20 cm) | -1,580, 6,400 | 400 | 2 | 0.25 | <10-3 | [5, 6, 7] |
| **G0-Backward**  **2006 – 2007** | 0.359, 0.688 | 85.8 | 60 | 1H, 2H  (20 cm) | 9,700-37,400 | -30±300 | 47±9 | 1.2±0.5 | <10-3 | [8] |
| **HAPPEx-III**  **2009** | 3.484 | 89.4 | 100 | 1H  (25 cm) | 23,800 | 200±10 | 3 | 0.5±0.1 | <10-3 | [9] |
| **PVDIS**  **2009** | 6.067 | 89.0 | 105 | 2H  (20 cm) | 60,000-160,000 | 100 | 100 | 40 | <10-3 | [10, 11, 12] |
| **PREx-I**  **2010** | 1.056 | 89.2 | 70 | 208Pb  (0.5 mm) | 657±60 | 85±1 | 4 | 1 | <10-4 | [13] |
| **QWeak**  **2010 – 2012** | 1.162 | 88.7 | 180 | 1H  (34 cm) | 226.5±  9.3 | 20.5±1.7 | -4.6±0.2 | -0.07±0.01 | <10-4 | [14, 15, 16, 17] |
| **PREx-II**  **2019** | 0.953 | 89.7 | 70 | 208Pb  (0.5 mm) | 550±18 | 20.7±0.2 | 2.2±4 | -0.3±0.3 | <6x10-5 | [18] |
| **CREx**  **2019-2020** | 2.18 | 87.1 | 150 | 48Ca  (5 mm) | 2668± 113 | -88±26 | -5.2±3.6 | -0.13±0.08 | <6x10-5 | [19] |
| **MOLLER**  **2025-2027** | 11 | 90 | 65 | 1H  (125 cm) | 35.6±0.74 | <10 | <0.6 | <0.12 | <10-5 | [20] |
| **SoLID**  **2030-2032** | 11 | 90 | 50 | 1H, 2H  (40 cm) | 500,000±3,000 | <200 | <3 | <1 | <10-4 | [21] |

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