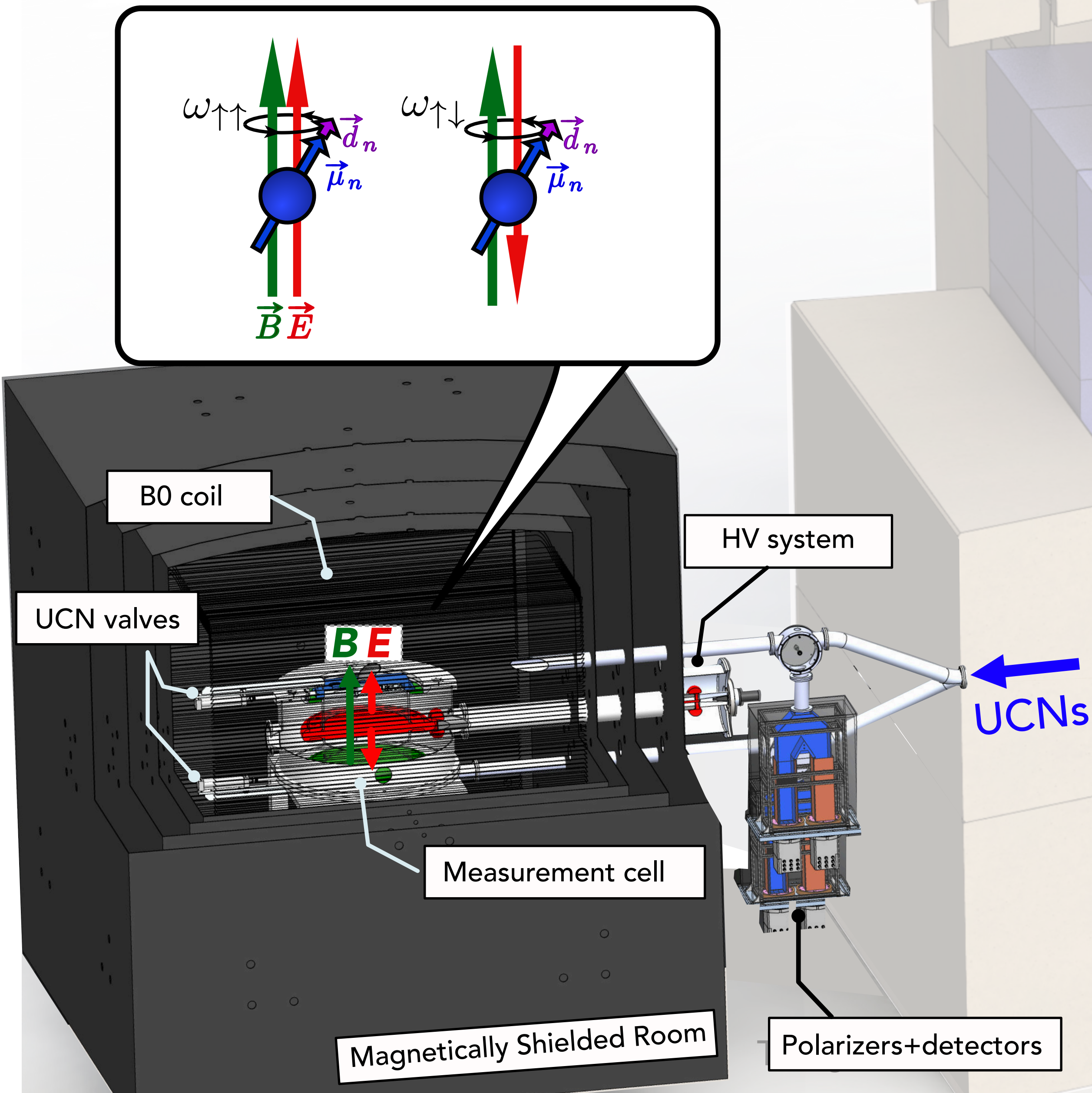


nEDM spectrometer



■ nEDM measurement

- Measurement cell under $B \sim 1 \mu\text{T}$, $E \sim 10 \text{ kV/cm}$
 - B: B_0 coil
 - E: HV system (double cell)
- Procedure:
 - Load UCNs
 - $\pi/2$ pulse (B1 field)
 - Free precession
 - $\pi/2$ pulse (B1 field)
 - Measure the polarization

■ Subsystems for magnetic field control

- Magnetically Shielded Room (MSR)
- Hg co-magnetometer
- Cs magnetometers
- Spin polarizers + detectors