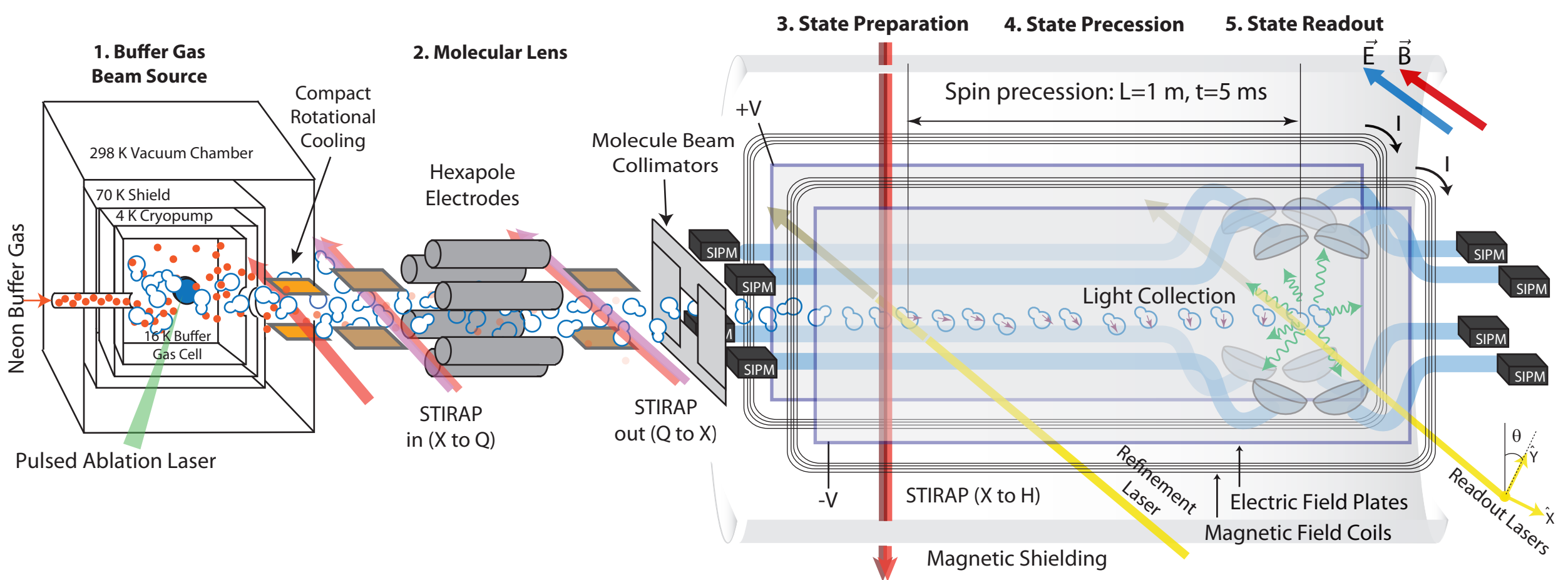
1. Buffer Gas Beam Source
2. Molecular Lens
3. State Preparation
4. State Precession
5. State Readout
Compact Rotational Cooling
298 K Vacuum Chamber
70 K Shield
4 K Cryopump
16 K Buffer Gas Cell
Neon Buffer Gas
Pulsed Ablation Laser
Hexapole Electrodes
STIRAP in (X to Q)
Molecule Beam Collimators
STIRAP out (Q to X)
SIPM
+V
-V
Spin precession: L=1 m, t=5 ms
Light Collection
STIRAP (X to H)
Refinement Laser
Electric Field Plates
Magnetic Field Coils
Magnetic Shielding
Readout Lasers
E
B
I
θ
Y
X