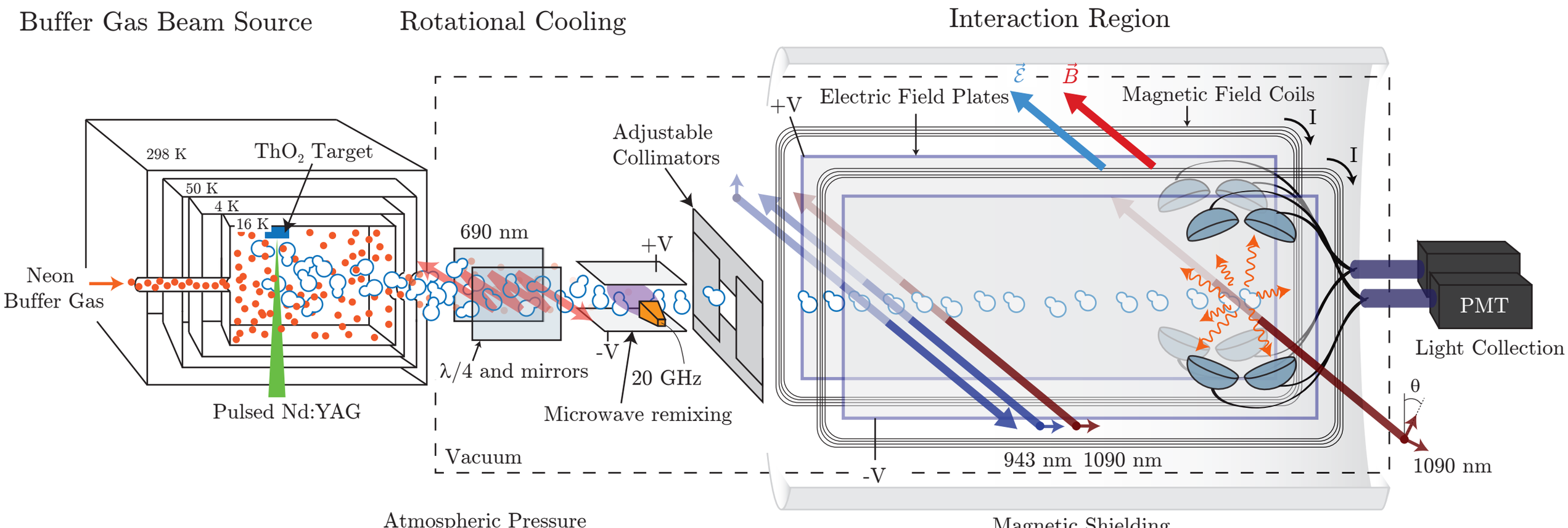
Buffer Gas Beam Source
Rotational Cooling
Interaction Region
298 K
50 K
4 K
16 K
ThO_2 Target
Neon
Buffer Gas
Pulsed Nd:YAG
690 nm
λ/4 and mirrors
+V
-V
20 GHz
Microwave remixing
Adjustable
Collimators
Vacuum
Atmospheric Pressure
$\vec{\mathcal{E}}$
$\vec{B}$
+V
Electric Field Plates
Magnetic Field Coils
I
I
-V
943 nm
1090 nm
Magnetic Shielding
PMT
Light Collection
θ
1090 nm