

Q&A

What is the role of mirror coils?

- Its role appears to generate magnetic field.

Why did the team use magnetic trap laser even there are other options?

- Magnetic trap is easy to construct in ALPHA 2, and it can trap a lot of atoms at the same time.

Why did the team set two laser beams co propagate each other?

- In order to erase first order Doppler shift. When due to the movement of atoms, frequency of laser beam could change, but to the first order, co propagating beams can cancel out its changes as one laser's change has exactly same magnitude with opposite sign of the other laser.