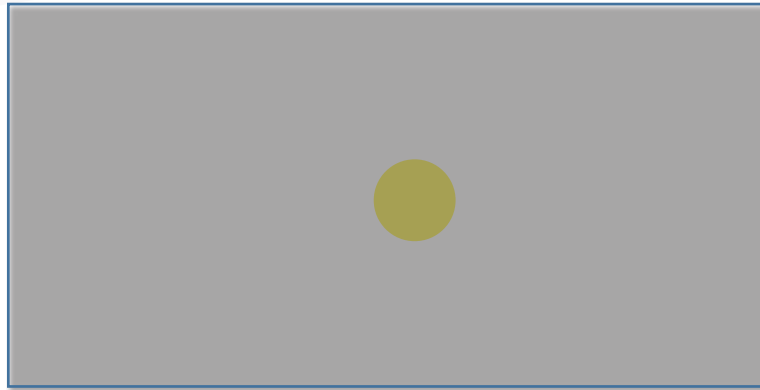




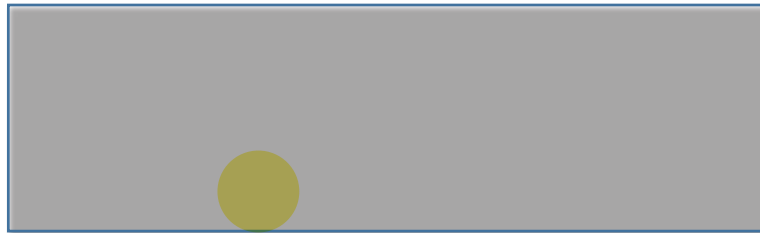


# Helmholtz coils

1.  $\vec{B}$  is uniform in the center of the coils



2.  $\vec{B}$  is uniform in the center of the coils



3.  $\vec{B}$  is uniform in the center of the coils



Helmholtz coils are two circular coils of wire, each carrying a current  $I$ , separated by a distance equal to their radius  $R$ . The magnetic field  $\vec{B}$  is uniform in the center of the coils. The magnetic field  $\vec{B}$  is uniform in the center of the coils. The magnetic field  $\vec{B}$  is uniform in the center of the coils. The magnetic field  $\vec{B}$  is uniform in the center of the coils.