OptiCool® VECTOR

Rotate your magnetic field vector with absolute freedom

OptiCool Vector

The OptiCool Vector magnet provides a magnetic field up to ±4 T perpendicular to the optical table and ±1 T in the plane parallel to the optical table. The magnet power supplies in the OptiCool Vector allow users to precisely set the magnetic field. In the OptiCool Vector, users can freely rotate the magnetic field vector to any set position.

This allows users to control the magnetic field relative to their sample. This makes it an ideal platform for studying the angular dependence of field relative to a sample.

The OptiCool Vector excels in probing different axes of a sample and is perfect for studying 2D materials, color centers, or other anisotropic materials.

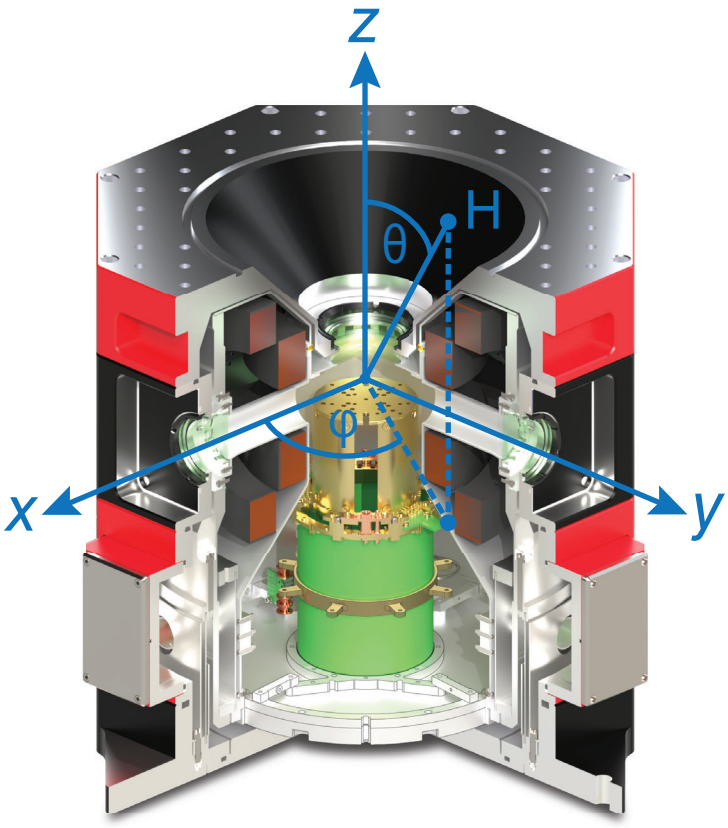
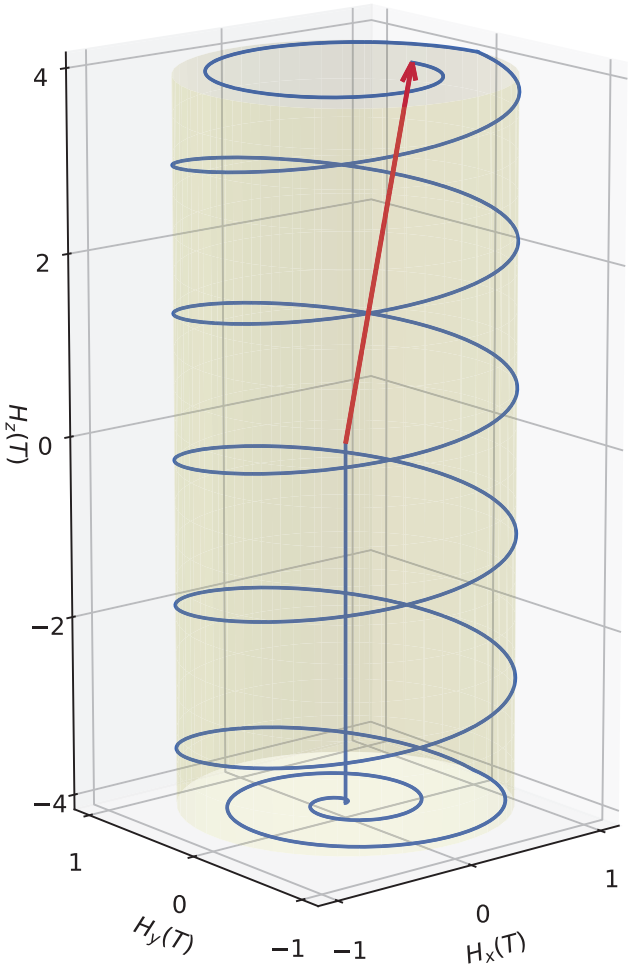


Diagram showing field axes relative to the Cryostat.



The OptiCool Vector magnetic field envelope (in yellow) encompasses a cylinder with a height of ±4 T in the z direction and a radius of 1 T in the x and y directions. The illustration above shows the magnetic field vector (red) being rotated through a helical path along the magnetic field envelope.

Quantum Design