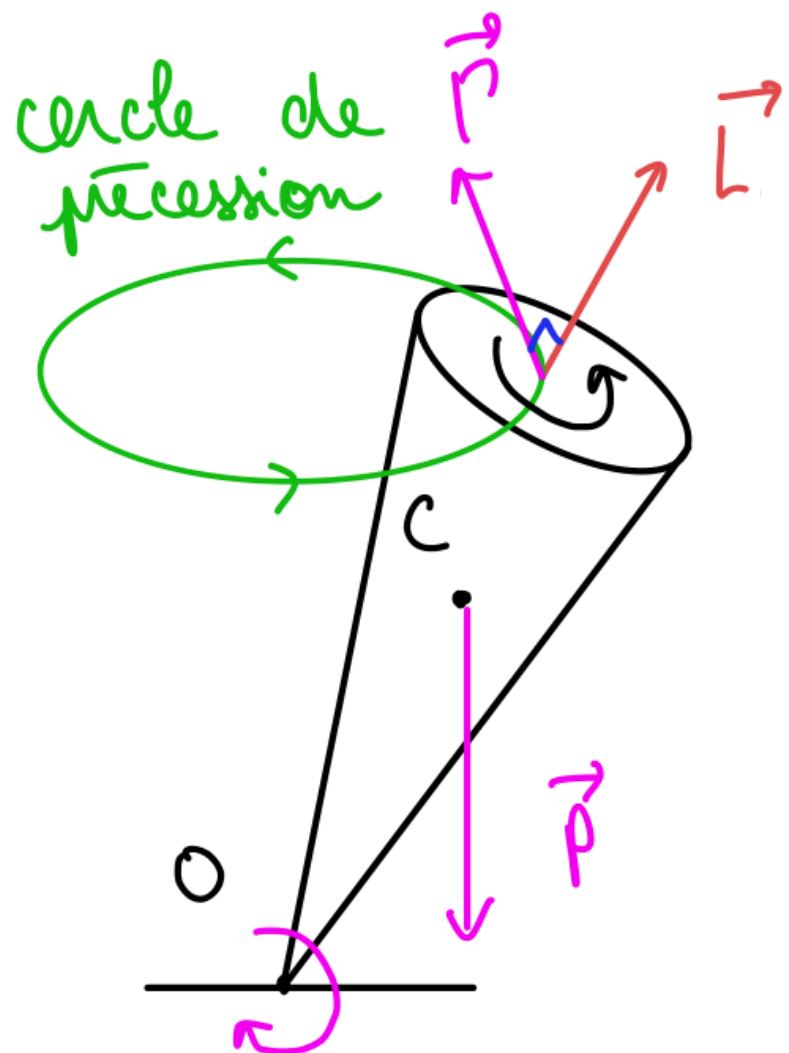
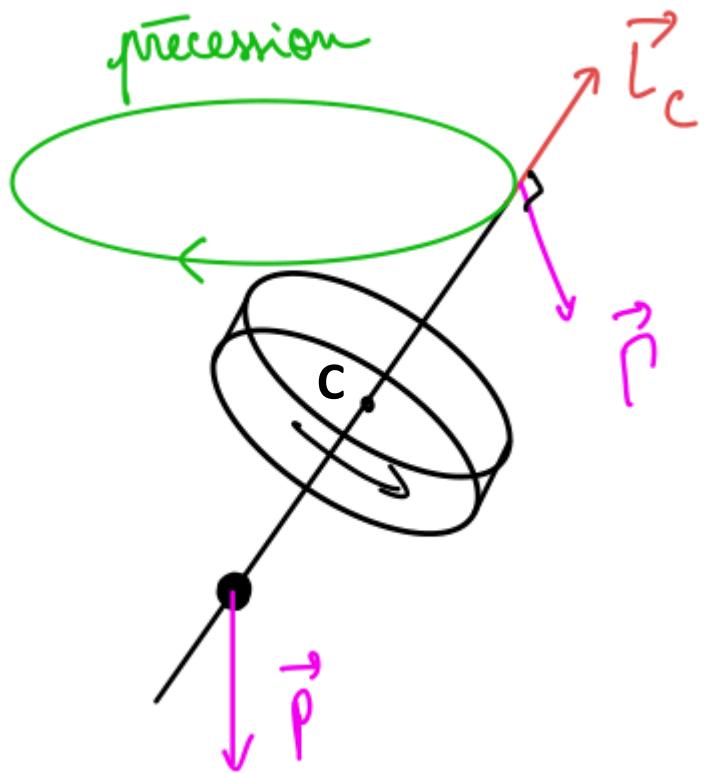


$R_0 \xrightarrow[z_0 = z_1]{\text{precession } \psi} R_1 \xrightarrow[x_1 = x_2]{\text{nutation } \theta} R_2 \xrightarrow[z_2 = z_3]{\text{rotation propre } \varphi} R_3$
 repère fixe repères intermédiaires repère lié au solide

vitesse angulaire : $\vec{\omega}_0 = \dot{\psi} \vec{z}_0 + \dot{\theta} \vec{x}_1 + \dot{\varphi} \vec{z}_2$



cercle de
précession





CREDIT: NIELS BOHR ARCHIVE, PHOTOGRAPH BY ERIK GUSTAFSON, COURTESY AIP EMILIO SEGRÈ VISUAL ARCHIVES,
MARGRETHE BOHR COLLECTION

Physicists Wolfgang Pauli, left, and Niels Bohr demonstrating a "tippe top" toy in 1954. Tippe tops flip upside down to spin on their handle and are part of the "Secret Science of Toys" festival at the Fleet Science Center on Jan. 21.

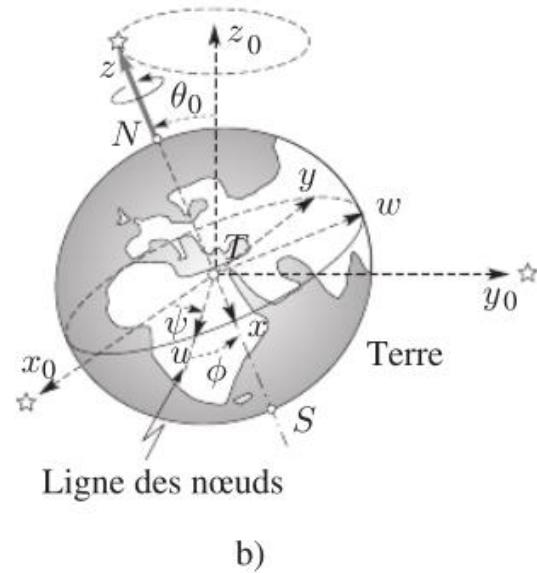
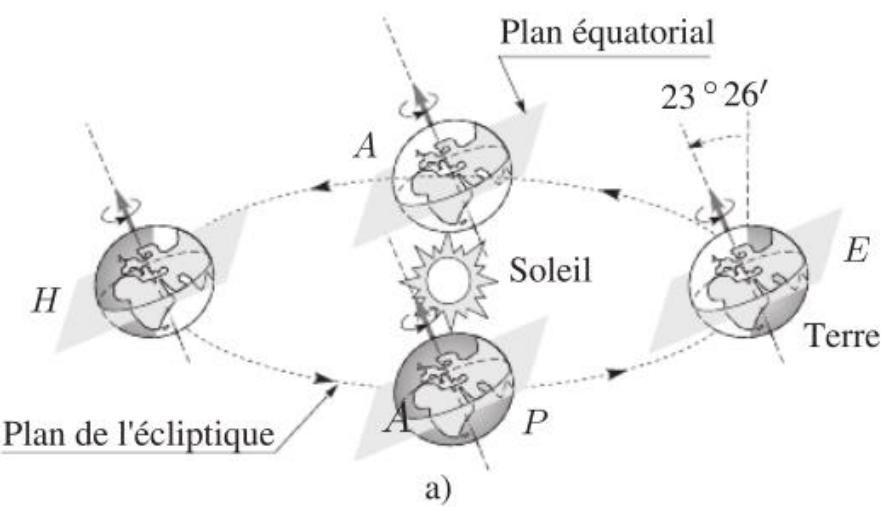
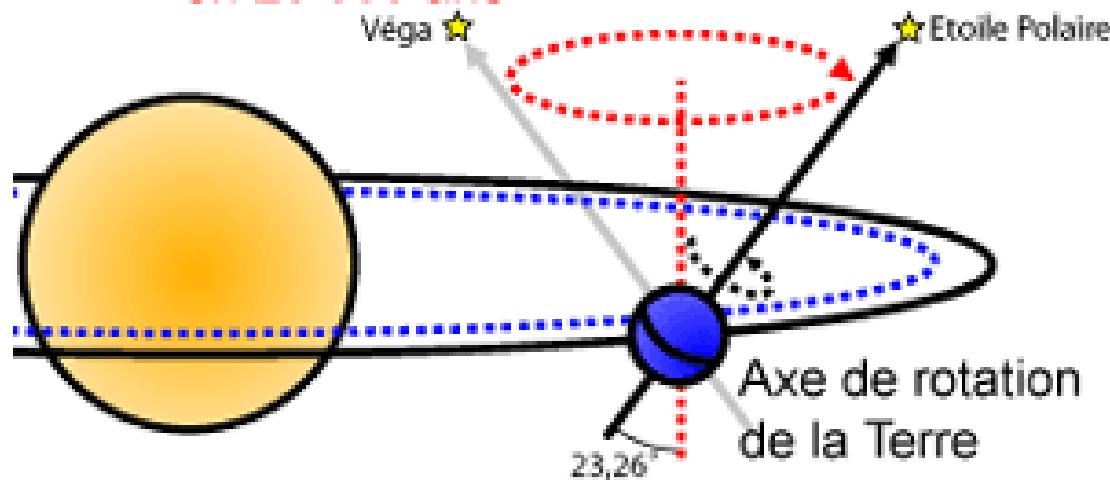


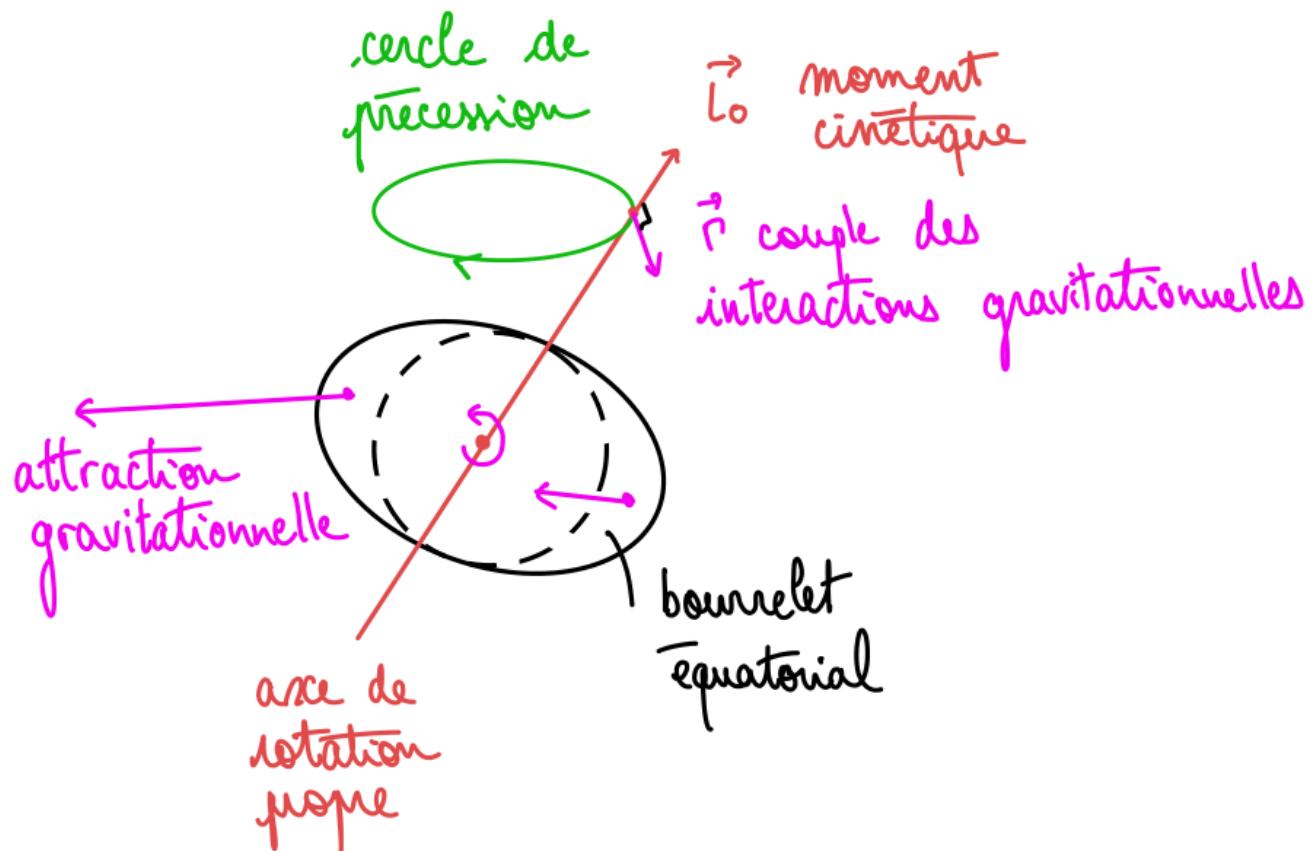
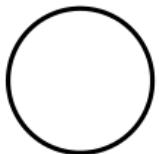
FIG. 26.7.

Source: Mécanique, Pérez

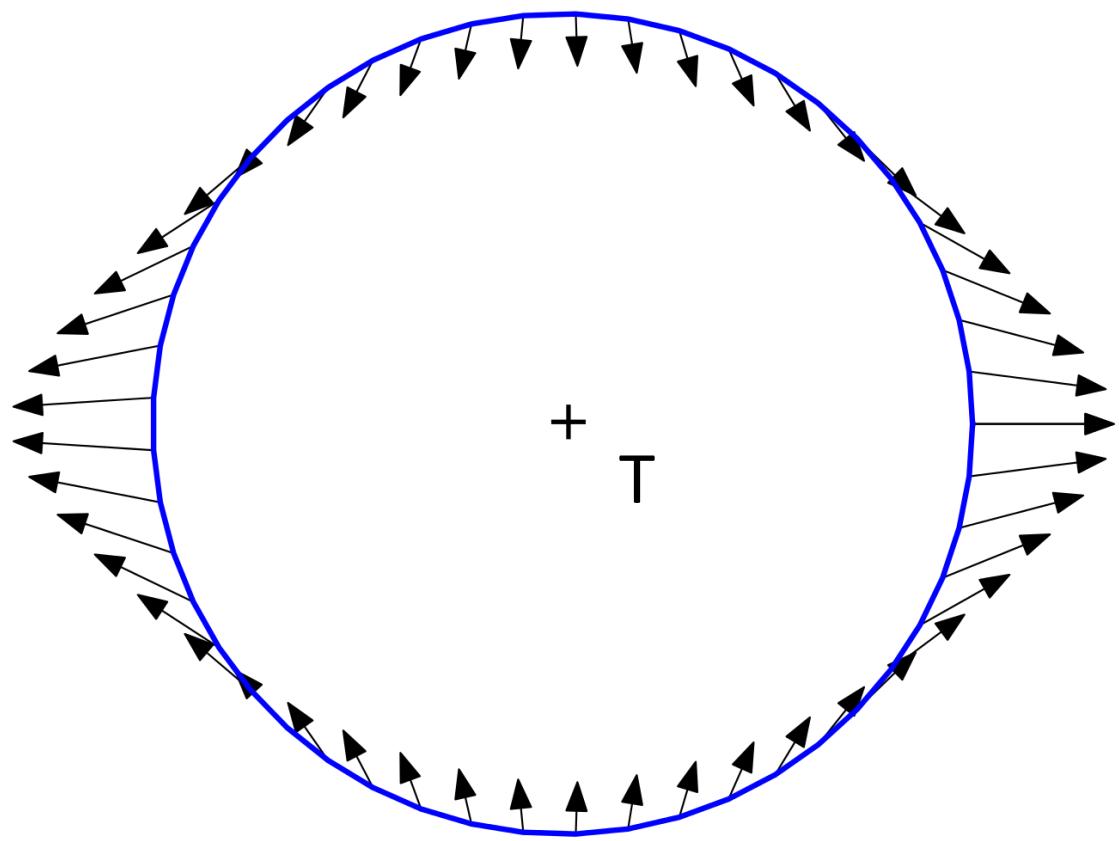
Précession : rotation de l'axe de la Terre
en 26 000 ans



Source: <https://media4.obspm.fr/>

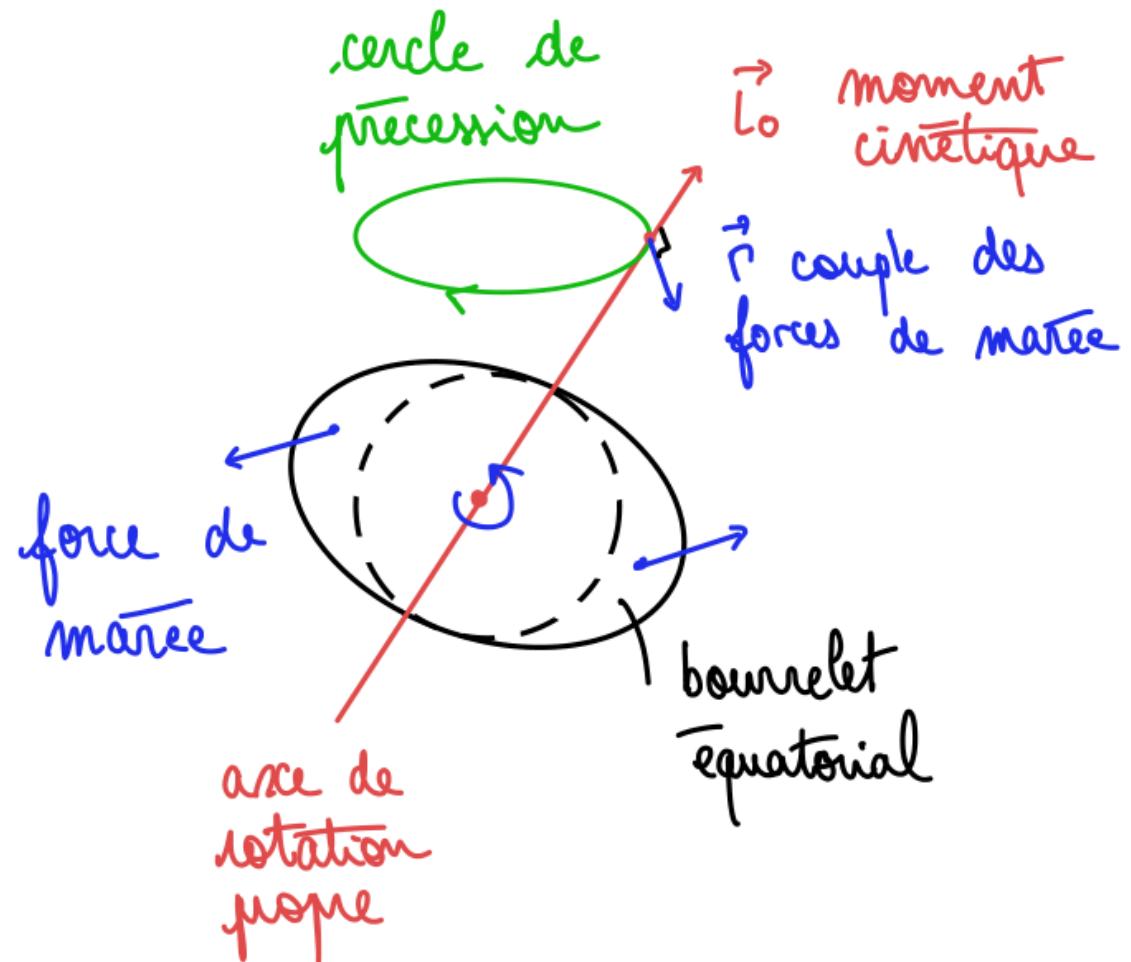
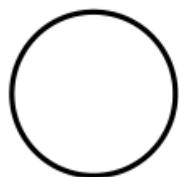


Astre ←



$$\overrightarrow{g_{\text{marées}}}(M) = \vec{g}(M) - \vec{g}(T)$$

Source: wikipedia



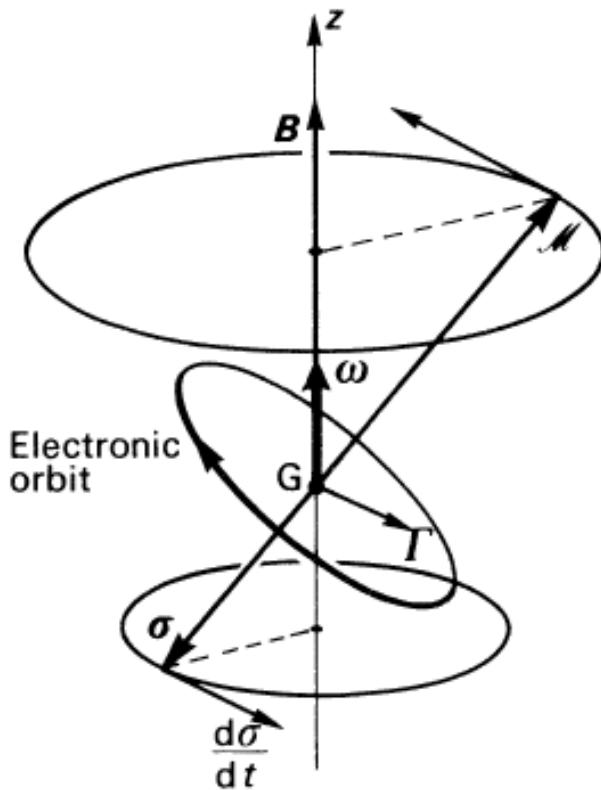
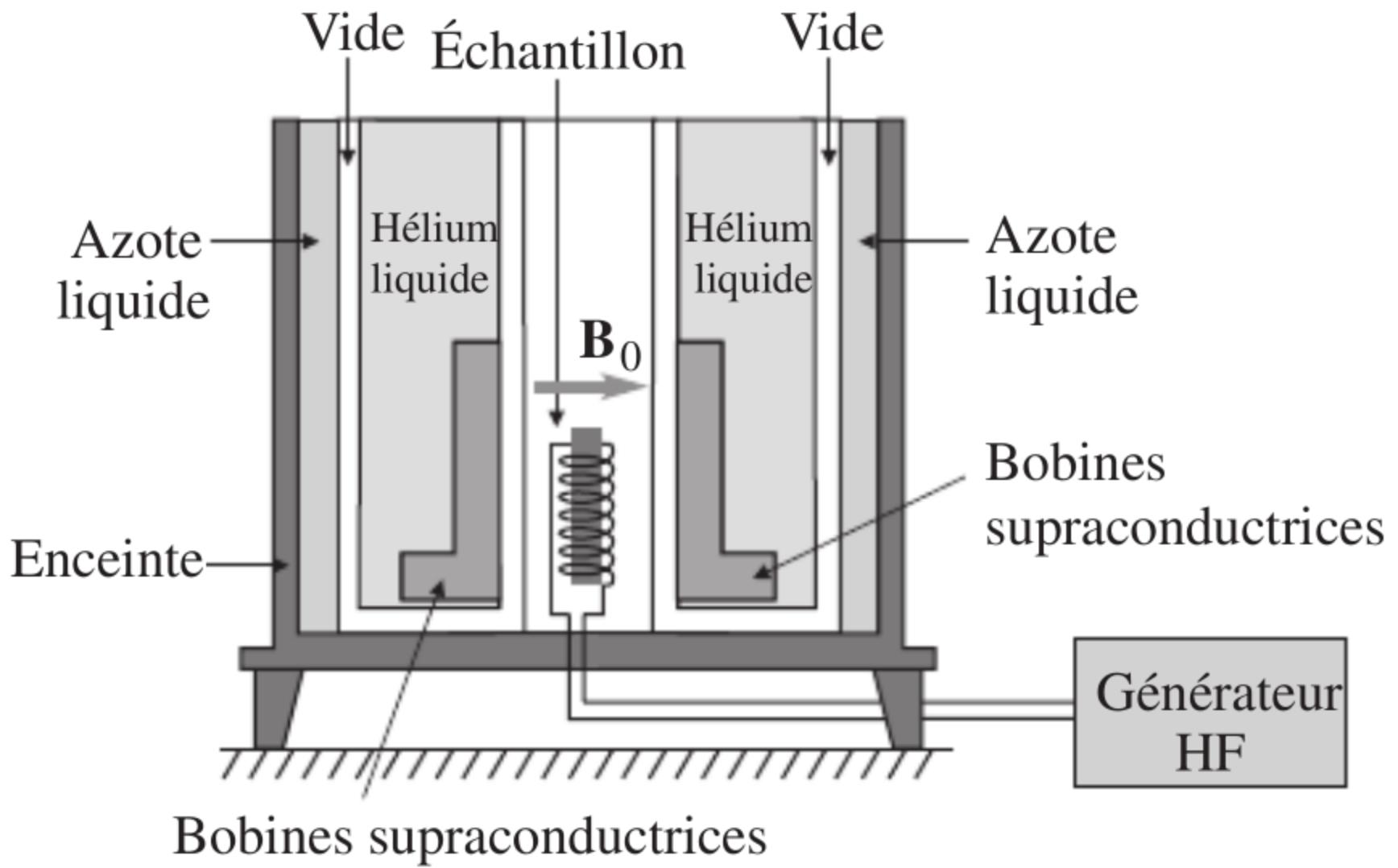


Figure 9.1 Larmor precession

Source: Cagnac



Source : Pérez, Mécanique

