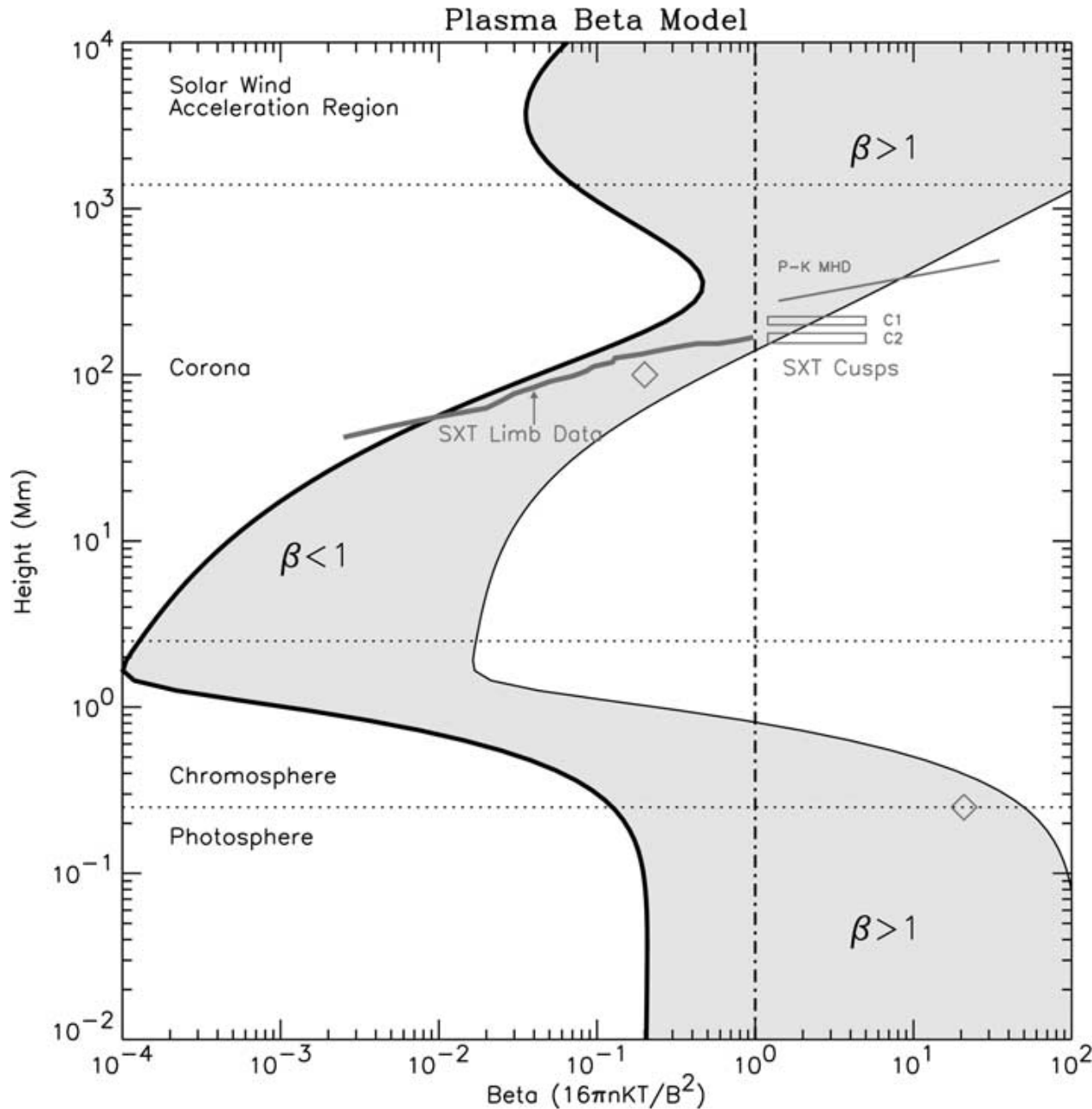


# Plasma Beta



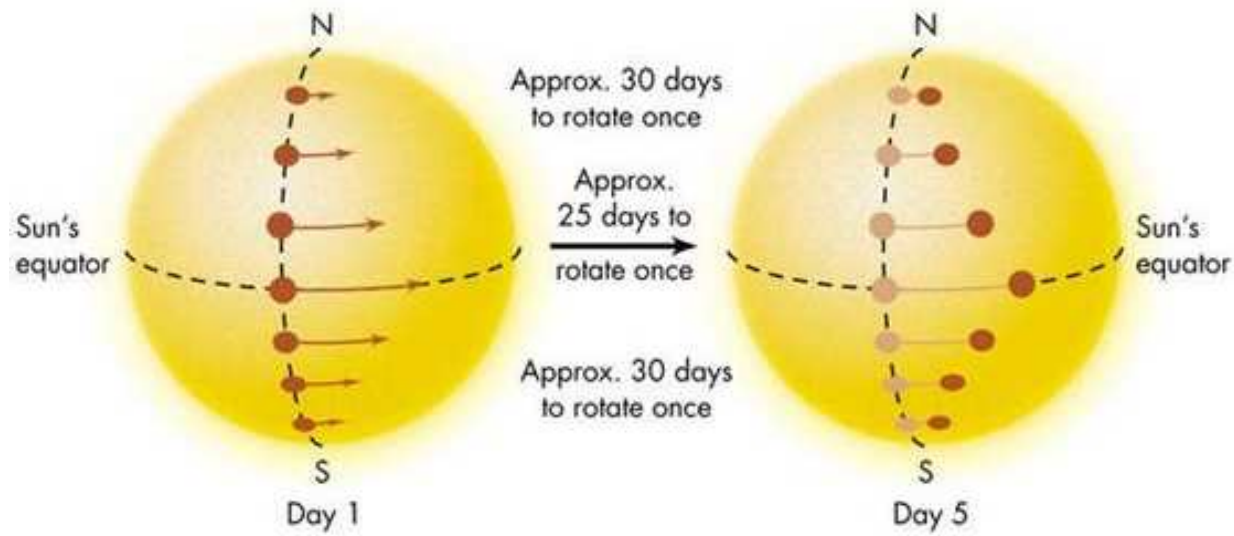
plasma thermal pressure  $P_g$

$$\beta = \frac{nkT}{\frac{B^2}{2\mu_0}}$$

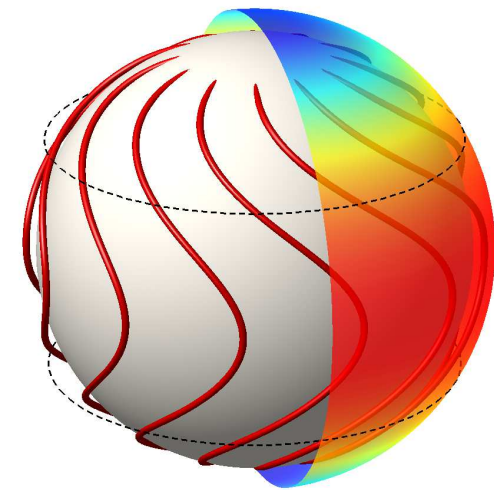
magnetic pressure  $P_B$

$\beta \ll 1$ : cold plasma

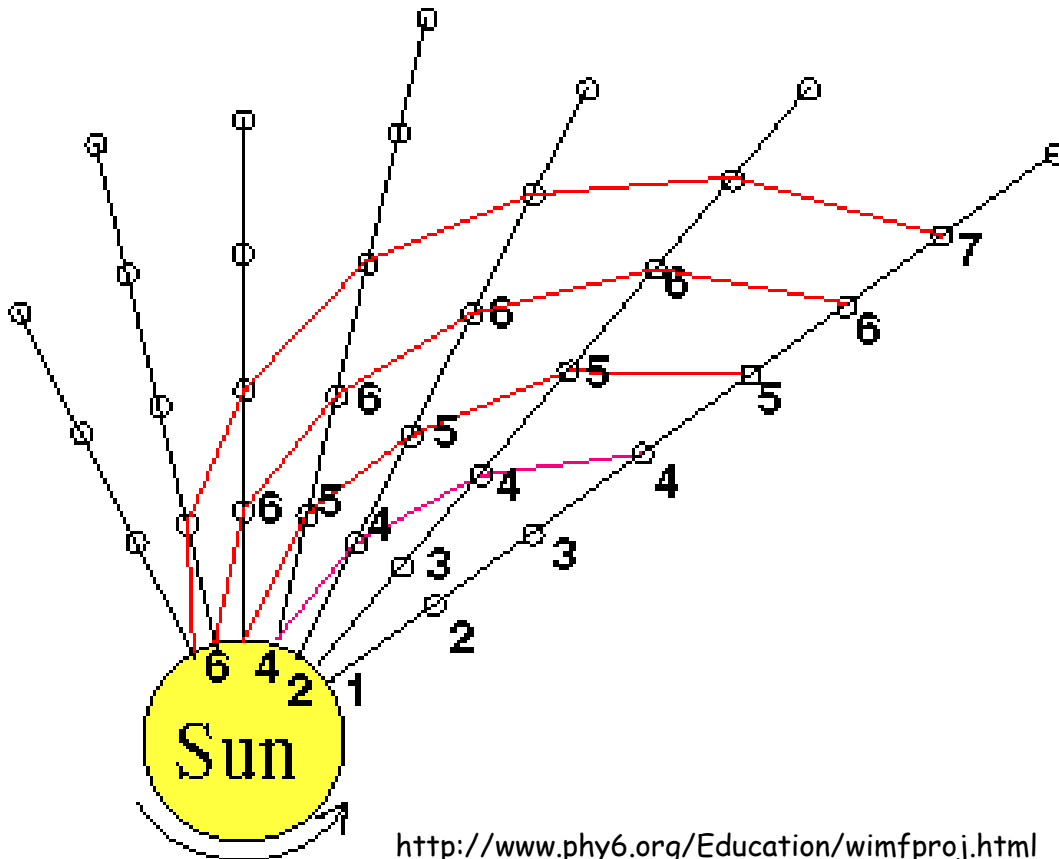
$\beta \geq 1$ : warm plasma



[http://www.stil.bas.bg/IHY/lectur\\_1/l2fig/image003.jpg](http://www.stil.bas.bg/IHY/lectur_1/l2fig/image003.jpg)



<https://www.staff.ncl.ac.uk/toby.wood/files/2015/04/sphere3.png>



<http://www.phy6.org/Education/wimfproj.html>

