| ITEM | IMAGE | DESCRIPTION |
| :---: | :---: | :---: |
| 1 |  | BIOTENSEGRITY MODEL <br> Stability of the solar panel base through: <br> - A compression Ball joint. <br> - Four Wire rods in tension. |
| 2 |  | DEGREE OF FREEDOM FOR DAYTIME MOVEMENT OF THE SUN. <br> - The ball joint has no limit in axial rotation to the ball axis, $y$-axis. This allows a wide degree of freedom to follow the daytime movement of the sun. <br> - The motor moves the brown wire rod to rotate the ball joint on the y -axis. <br> $\rightarrow$ The blue wire rod, attached to the traction spring, maintains the opposite tension to the brown wire rod attached to the motor. Achieving stability. <br> - The $Y$ axis of the drawing must be aligned with the meridian <br> - The $X$ axis of the drawing must be aligned with the parallel. |
| 3 |  | DEGREE OF FREEDOM FOR PRECESSION MOVEMENT. <br> - The ball joint allows limited rotation in the $X$ axes. Enough to follow the annual precession. <br> - The motor moves the red wire rod to rotate the ball joint in the X axis. <br> - The green wire rod, attached to the traction spring, maintains the opposite tension to the red wire rod attached to the motor. Achieving stability. |




