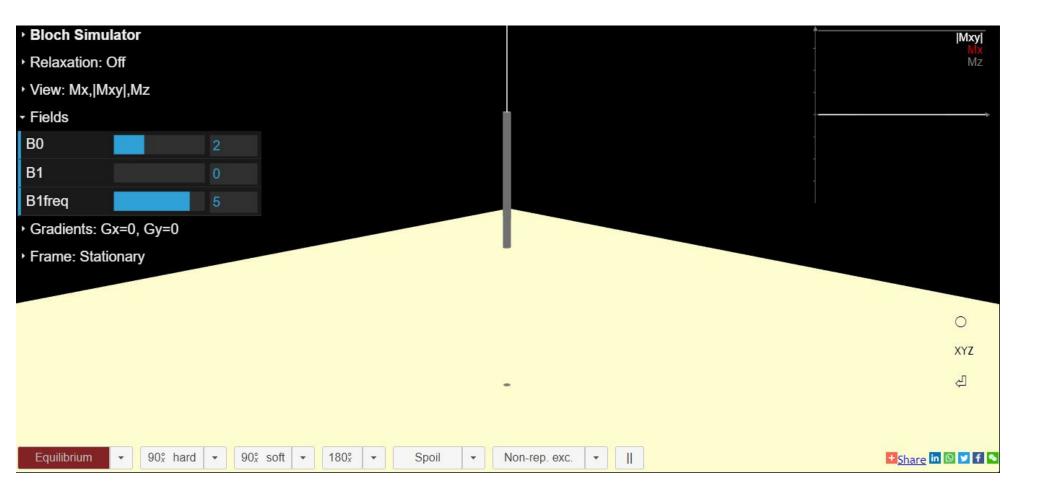
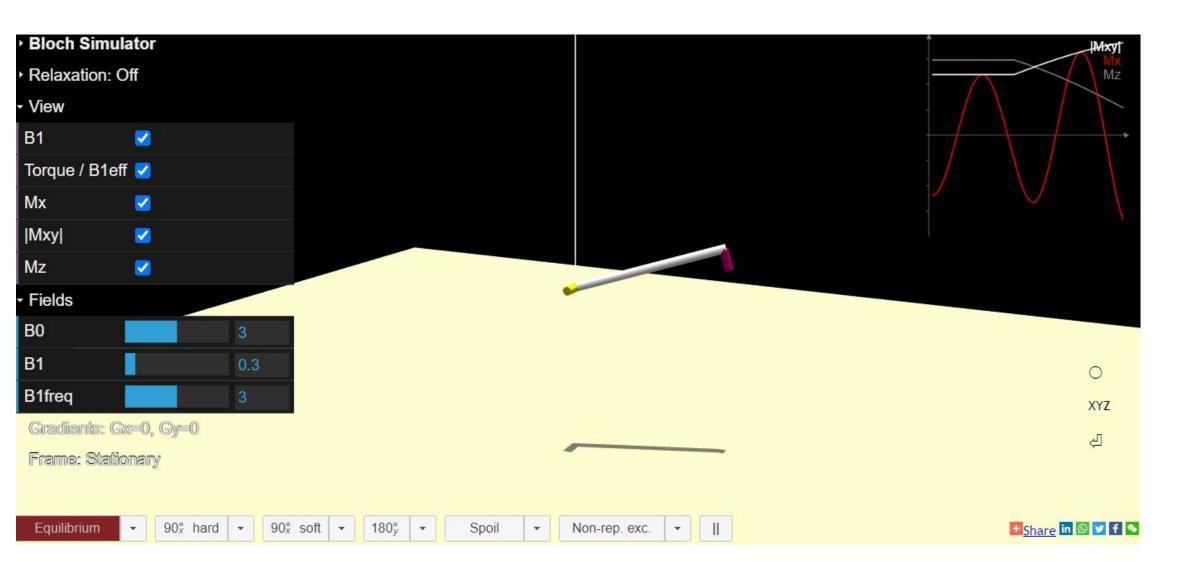
MRI 2nd Activity Team SPECT

Mei Li Luisa Cham Perez Ana Lucía Soria Cardona Graciela Alejandra Rincón López Natalia Verónica Flores Del Río Marcela Enriquez López

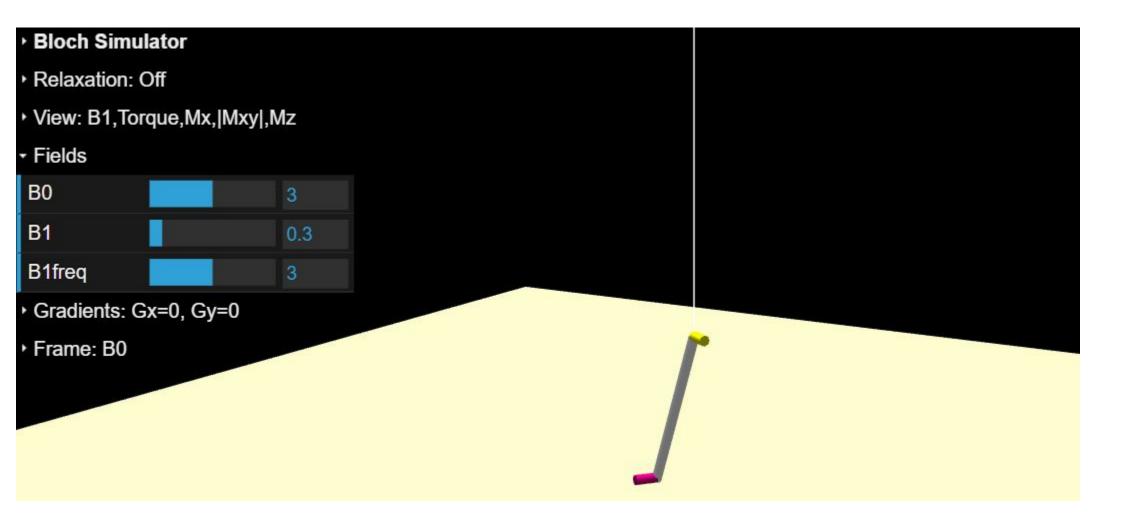
step 1



Selección de las view y se establecieron los rangos de BO, B1 y B1freq



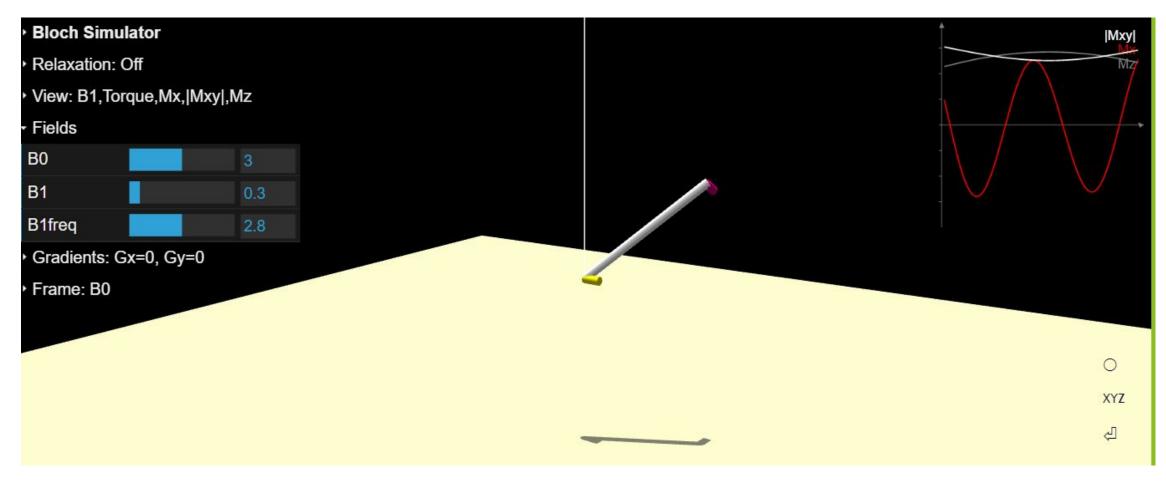
step 3



step 4

Frequency at which the torque only moves at one direction. B1Freq= 2.8

B1Freq= 2.8



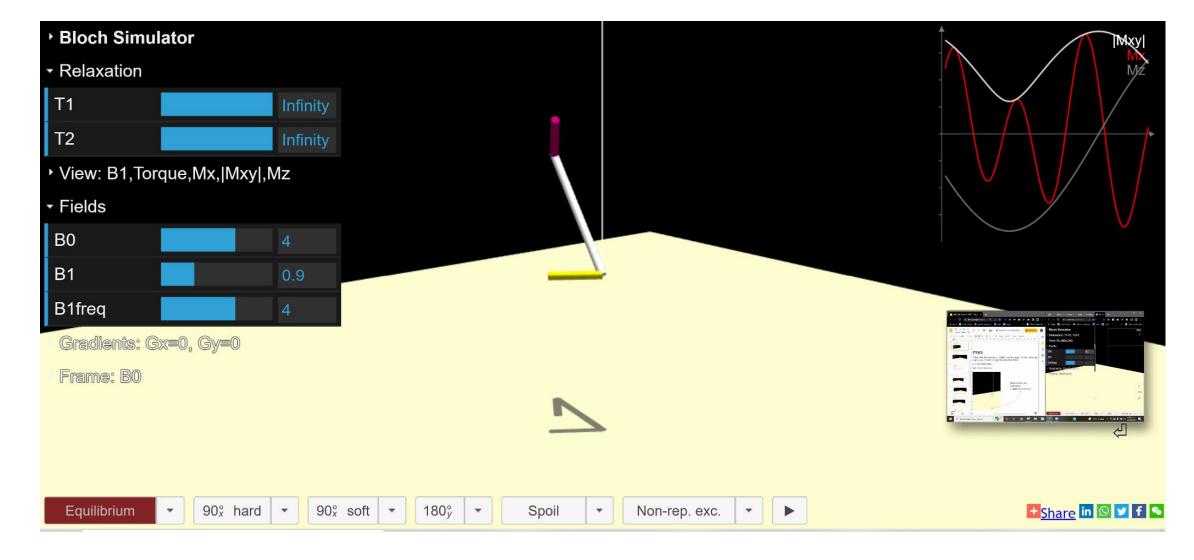
Our example

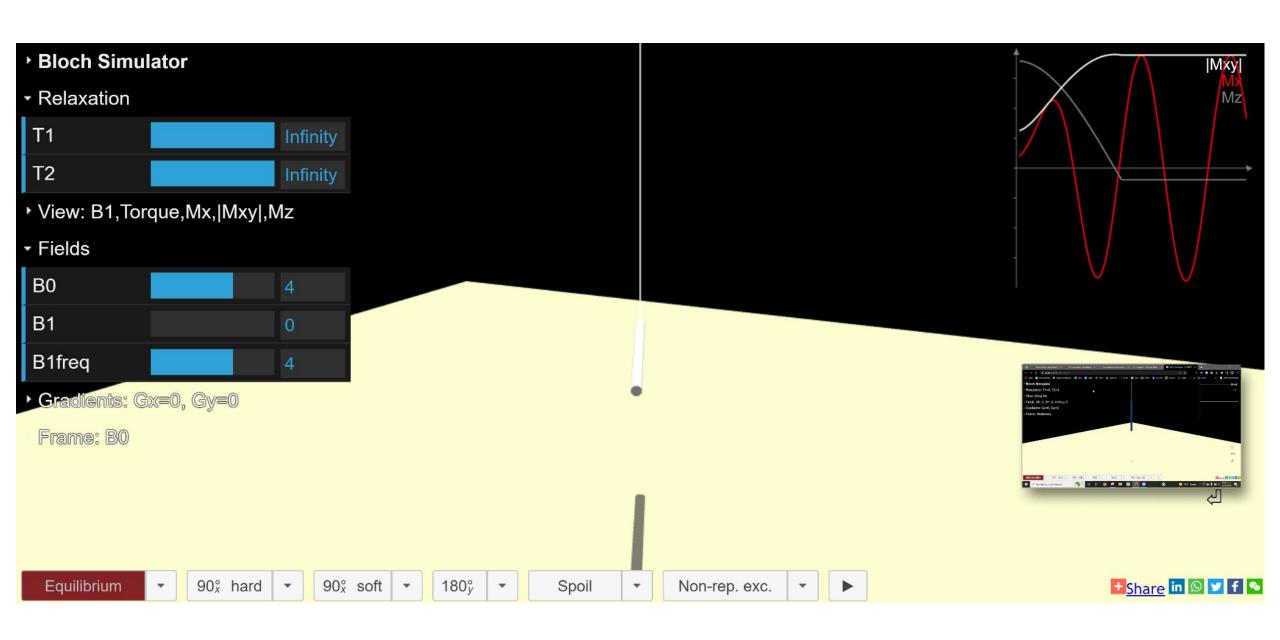
BO = 4

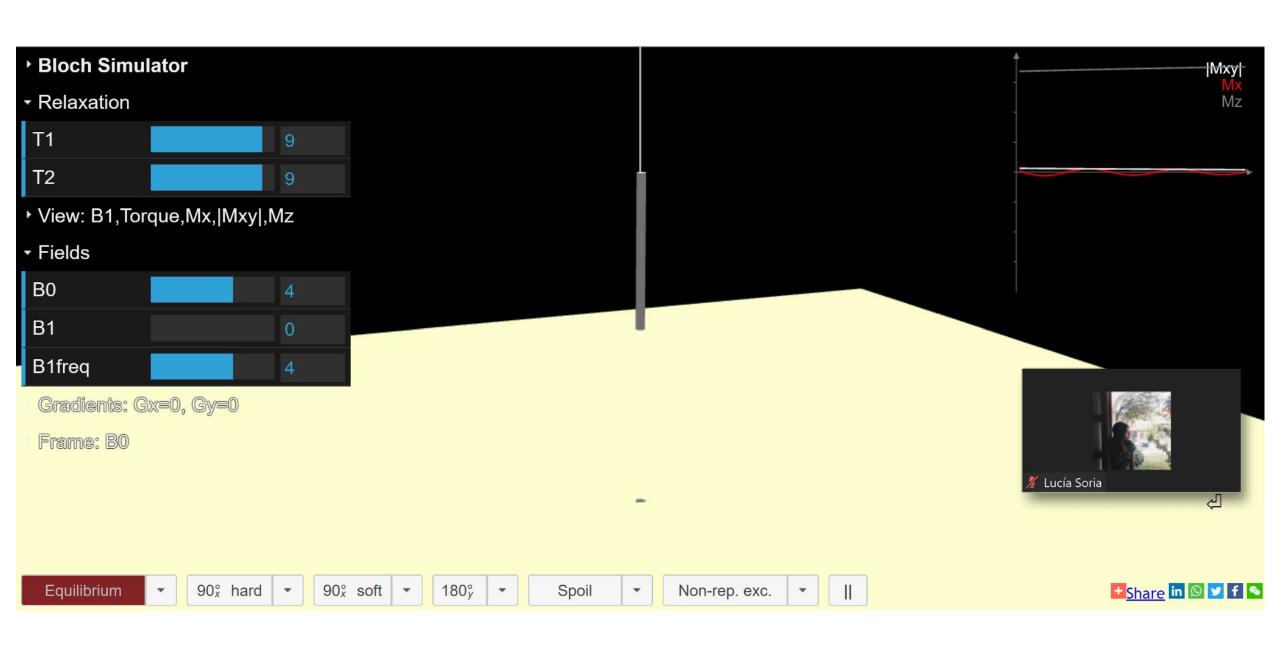
B1 = 0.9

B1Freq = 4

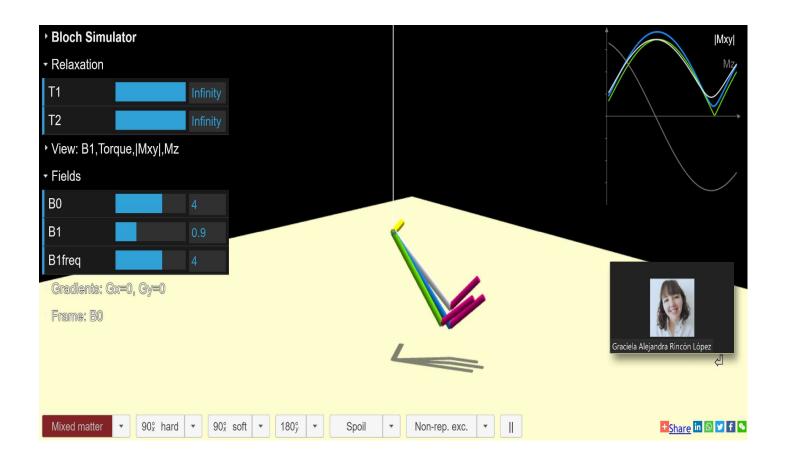
Case







Mixed matter



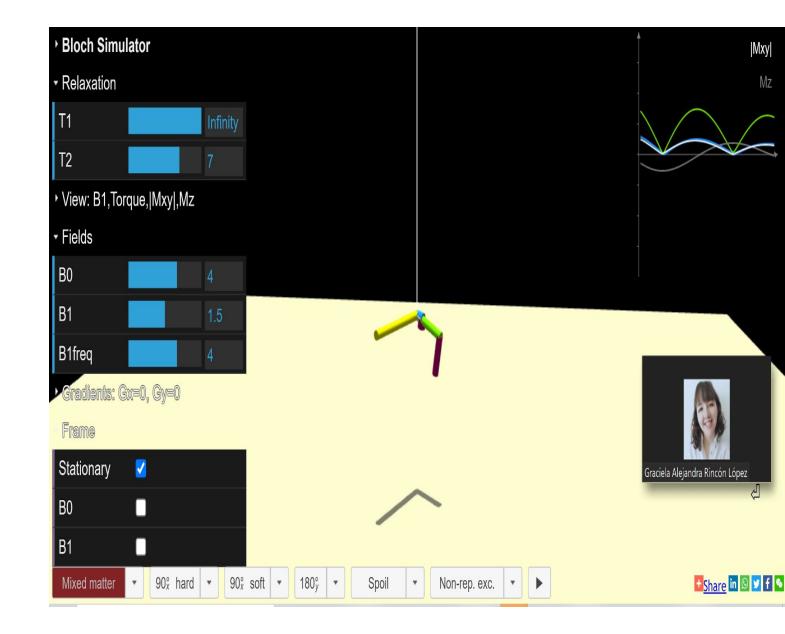
With the B1 frame, all the components are moving in the same direction.

Due to the different properties found in the simulation there are affected in different ways by the ultramagnetic field. This is seen as in the simulation the pieces move towards the same direction, yet they move at a different speed.

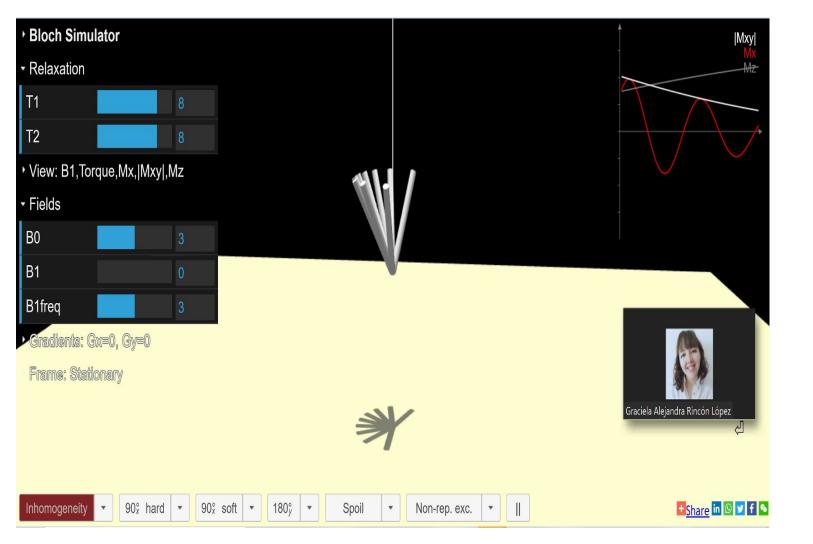
Looking at the different colors of pieces we can observe delays on the rotation of them, it can be seen how the green piece is moving at a faster rate than the blue piece.

Mixed matter

When editing the B1 and the relaxation, a faster decrease was noted by the white and blue bars, while the green one kept a relatively good size and rotation time.



90° hard angle



In the 90° hard angle the magnetizations are dephasing and we can appreciate that the echo is greater than mx but is not strong enough to be greater than mz.

180°y angle

When the magnetizations are returning to the equilibrium state the 180°y angle is applied and we can observe that the echo is stronger than both mx and mz.

