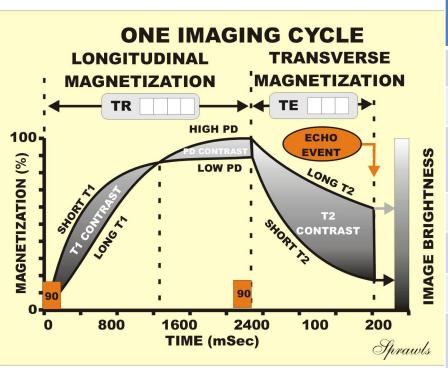
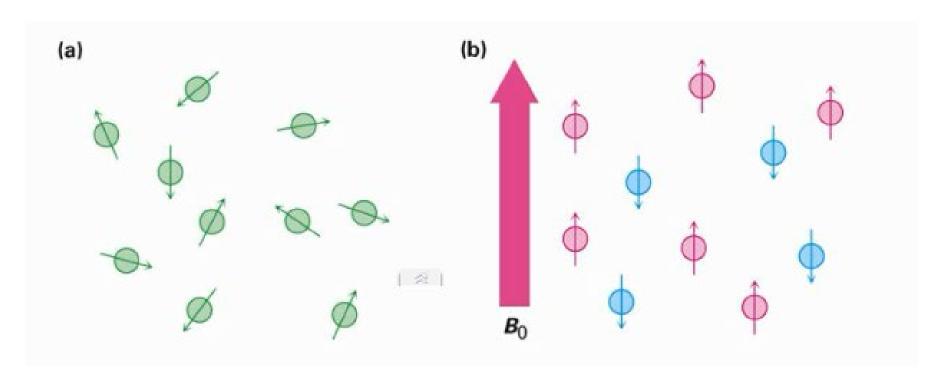


Goal



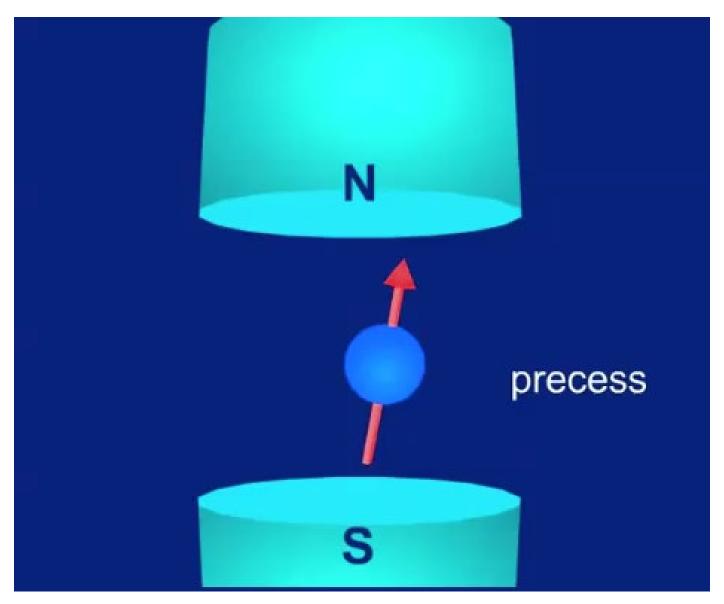
| Substance | T1 | T2 |
|---------------------------------|--------|--------|
| Simple fluid | Dark | Bright |
| Edema | Dark | Bright |
| Proteinaceous/hemorrhagic fluid | Bright | Dark |
| Hemorrhage | Bright | Dark |
| Fat | Bright | Bright |
| Fibrosis | Dark | Dark |
| Iron/Calcification/Other metals | Dark | Dark |



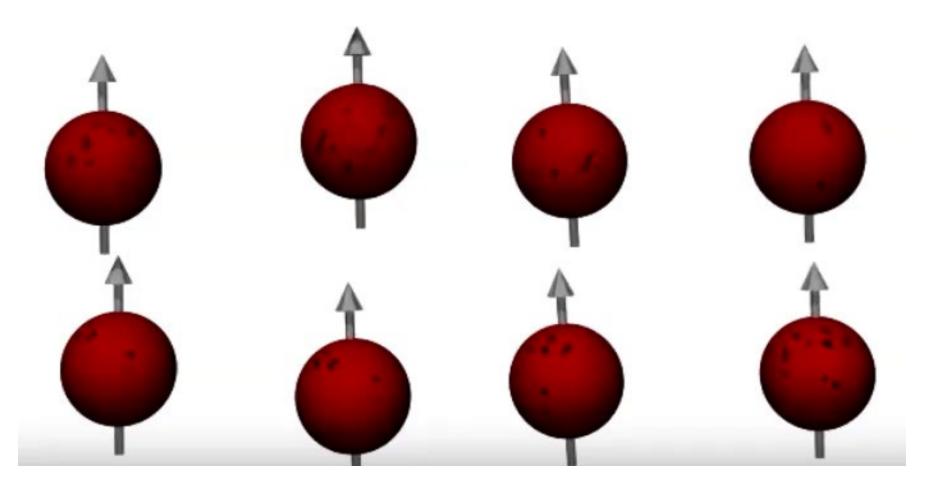
Outside Magnetic Bore

Inside Magnetic Bore

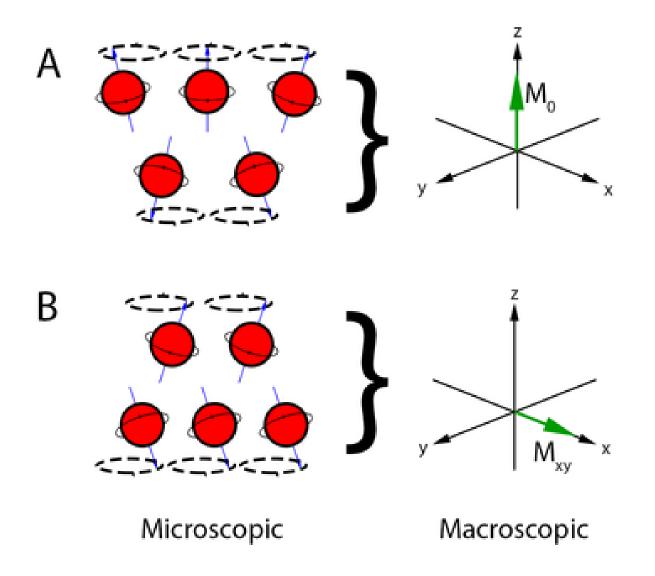
Precession



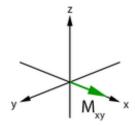
External RF Energy Added "Resonance"

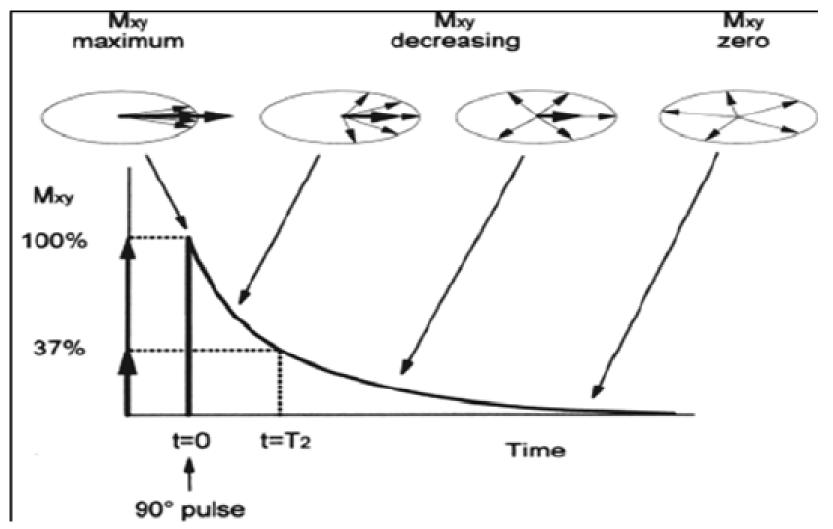


Broken Down Into Vectors

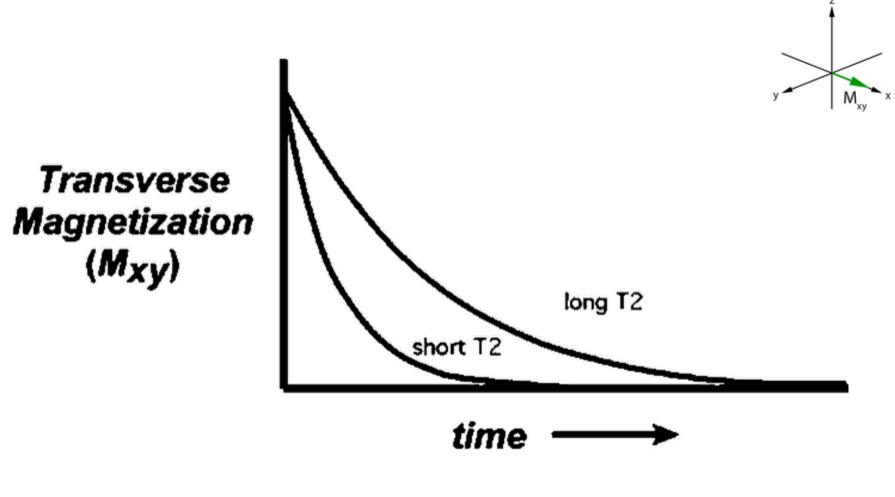


Transverse Relaxation



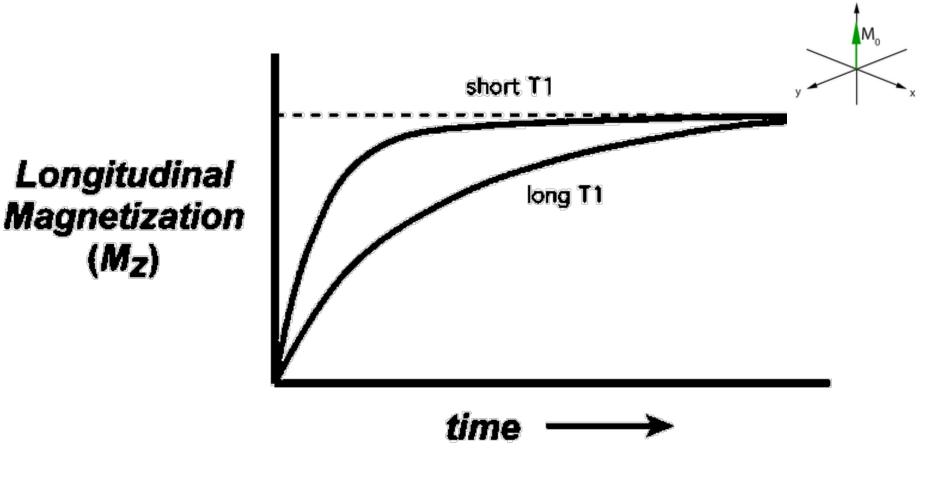


Transverse Relaxation – T2

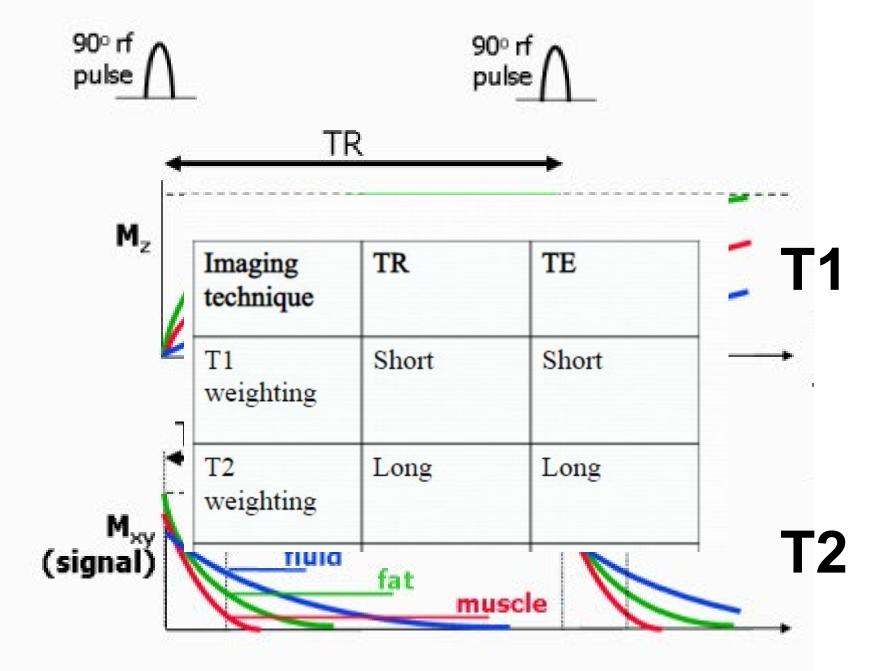


Spin - Spin

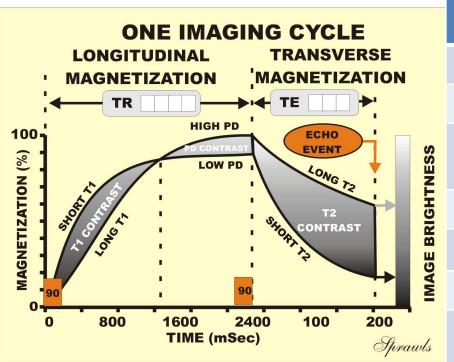
Longitudinal Relaxation – T1



Spin - Lattice



You Know It!



| Substance | T1 | T2 |
|---------------------------------|--------|--------|
| Simple fluid | Dark | Bright |
| Edema | Dark | Bright |
| Proteinaceous/hemorrhagic fluid | Bright | Dark |
| Hemorrhage | Bright | Dark |
| Fat | Bright | Bright |
| Fibrosis | Dark | Dark |
| Iron/Calcification/Other metals | Dark | Dark |