The Size of Things

- Proton (H+ ion)
- Simple organic molecules
- Polynuclear dissolved complexes
- Silica tetrahedron
- Quartz unit cell
- Small magnetite and periclase crystals
- Thickness of double layer in aqueous solution
- Thickness of altered mineral surface layers
- Colloidal particles
- Silica tetrahedron
- Quartz unit cell
- Small magnetite and periclase crystals
- Thickness of double layer in aqueous solution
- Thickness of altered mineral surface layers
- Colloidal particles

Electromagnetic spectrum

- Gamma Rays
- X-rays
- Ultraviolet
- Infrared
- Microwave
- Radio

Response of matter to absorption of electromagnetic radiation

- Nuclear transitions
- Core electron transitions
- Loss of valency electrons
- Valency electron transitions
- Molecular vibrations
- Molecular rotations
- Electron spin resonance
- Nuclear spin resonance
- Nuclear quadrupole resonance

Remote sensing

- Aerial Photography
- Direct human vision


Electron Microscopy

Scanning tunneling microscopy

Remember that this diagram has a logarithmic scale. The four numbered gray circles on this diagram represent any four integers on the scale, and this gray field is a very small part of a fifth.