

The diagram illustrates a one-dimensional chain of lanthanide (Ln) ions. The chain is composed of several segments connected by single bonds. The segments are as follows:

- Leftmost segment:** A cluster of four Ln atoms. One Ln atom is bonded to an oxygen (O) atom, and another is bonded to a methyl group (C-H<sub>3</sub>).
- Second segment:** A single Ln atom bonded to an oxygen (O) atom.
- Third segment:** A single Ln atom.
- Fourth segment:** A chain of three Ln atoms. The first Ln atom is bonded to an oxygen (O) atom, and the second Ln atom is bonded to a methyl group (C-H<sub>3</sub>).
- Fifth segment:** A single Ln atom.
- Sixth segment:** A chain of three Ln atoms. The first Ln atom is bonded to a methyl group (C-H<sub>3</sub>), and the second Ln atom is bonded to a methyl group (C-H<sub>3</sub>).
- Seventh segment:** A single Ln atom.
- Eighth segment:** A chain of three Ln atoms. The first Ln atom is bonded to a methyl group (C-H<sub>3</sub>), and the second Ln atom is bonded to a methyl group (C-H<sub>3</sub>).
- Ninth segment:** A single Ln atom.
- Tenth segment:** A chain of three Ln atoms. The first Ln atom is bonded to a methyl group (C-H<sub>3</sub>), and the second Ln atom is bonded to a methyl group (C-H<sub>3</sub>).
- Eleventh segment:** A single Ln atom.
- Twelfth segment:** A chain of three Ln atoms. The first Ln atom is bonded to a methyl group (C-H<sub>3</sub>), and the second Ln atom is bonded to a methyl group (C-H<sub>3</sub>).
- Thirteenth segment:** A single Ln atom.
- Fourteenth segment:** A chain of three Ln atoms. The first Ln atom is bonded to a methyl group (C-H<sub>3</sub>), and the second Ln atom is bonded to a methyl group (C-H<sub>3</sub>).
- Fifteenth segment:** A single Ln atom.
- Sixteenth segment:** A chain of three Ln atoms. The first Ln atom is bonded to a methyl group (C-H<sub>3</sub>), and the second Ln atom is bonded to a methyl group (C-H<sub>3</sub>).
- Seventeenth segment:** A single Ln atom.
- Eighteenth segment:** A chain of three Ln atoms. The first Ln atom is bonded to a methyl group (C-H<sub>3</sub>), and the second Ln atom is bonded to a methyl group (C-H<sub>3</sub>).
- Nineteenth segment:** A single Ln atom.
- Twentieth segment:** A chain of three Ln atoms. The first Ln atom is bonded to a methyl group (C-H<sub>3</sub>), and the second Ln atom is bonded to a methyl group (C-H<sub>3</sub>).