## Structural study and electrical properties of a new arsenate compound KNb4MoAs3O18

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**Abstract :** A new compound the formula KNb4MoAs3O18 has prepared by solid state reaction technique. This compound crystallizes in the space group pbam with a=15.448A°, b=10.328A°, c=10.545A° and z=4. The structure consists of MO6 octahedra (M=Mo, Nb) and AsO4 tetrahedra sharing vertices, forming infinite chains (MO6-AsO4) the potassium atom is located in tunnels parallel to the b axis.

**Keywords:** Arsenate, Mixed valence oxide, physical properties