Co-009 Room: C311 Time: June 7 11:30-11:45

Distributions of O isotopes in a Type B2 CAI from the Vigarano meteorite

Miwa Yoshitake[1], Yoshiyuki Koide[2], Hisayoshi Yurimoto[3]

[1] Earth and Planetary Sci.,TITech, [2] Kanagawa Pref. Mus. Nat. Hist., [3] Earth & Planet. Sci., TiTech http://www.geo.titech.ac.jp/yurimotolab/

O isotopic composition of individual minerals in a type-B2 CAI from the Vigarano meteorite has been measured by SIMS. O isotopic compositions in the minerals are classified is two groups, i.e. 16O-rich (-4% relative to SMOW) and 16O-poor (similar to terrestrial value). Spinel and fassite belong to 16O-rich group. Melilite is 16O-poor. Anorthite crystals are belongs to the both group.

The minerals having 16O-rich composition are relict grains of CAI precursor. Solar nebula gas having 16O poor composition was incorporated into the 16O-rich CAI precursor when the CAI precursor was partially melted.