

## The crystallization from the intercumulus melts of nakhlites: In comparison with those of experiments

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Nakhlites are igneous cumulates classified into martian clinopyroxenites. They have probably formed in lava flows or sills after the accumulation of cumulus phases in magma chamber(s) (e.g., Imae et al., 2005). We have reported preliminary results of isothermal and cooling experiments using an intercumulus melt composition (Imae, 2004). In addition, we have been studying two independent nakhlites from Antarctica, the Yamato nakhlites and MIL 03346, and have obtained the plausible intercumulus melt compositions for the two nakhlites based on the mass balance calculation (Imae and Ikeda, 2005). Recently, we estimated the crystallization paths from the intercumulus melts toward mesostasis for the two nakhlites based on the mass balance calculation. Here we compare the experimental results with the estimated crystallization paths for the two nakhlites.

### References:

- N. Imae 2004: Phase equilibrium experiments of the parent magma formed nakhlites. *Meteoritics and Planetary Science* 39. A49.
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