

Determining the Abundance and Chemical Composition of Mafic Crystals in a Lunar Meteorite



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FIG 2. Plane-polarized photomosaic of slide A5.

is pyroxene and olivine, bright white is metal.

in FIG 3. Dark grey is plagioclase, light grey

FIG 4. Backscatter Electron image of a rock

Mafic crystals in the NWA 11788 have a wider range of compositions compared to previous studies (Figs.7,8,9,10), indicating that new rock types may be present in this sample.

Some data points have low or high abundances of elements (e.g. points with high Cr in Fig. 7 and low Mg# in Fig. 10). Further investigation is needed to determine if these are true outliers.

New rock types can help constrain the chemical nature of the lunar magma ocean.

Conclusions

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