

# Paragenesis of ferrocolumbite and ixiolite from Ishikawa-yama granitic pegmatites, Fukushima, Japan

# Toru Ryu[1]; Mitsuyoshi Kimata[2]; Atsushi Kyono[3]; Norimasa Nishida[4]

[1] Science and Engineering, Univ. of Tsukuba; [2] Institute of Geoscience, University of Tsukuba; [3] Earth Evolution Sciences, Univ. of Tsukuba; [4] RFCST, Univ. of Tsukuba

Paragenesis of ferrocolumbite and ixiolite from Ishikawa-yama granitic pegmatites, Fukushima, Japan, has been explained by the microscopic observation and X-ray diffraction analysis. Backscattered electron images show the patchy zoned crystal with ferrocolumbite (dark regions) and ixiolite (bright regions). Ferrocolumbite has a Ta/(Ta+Nb) of 0.395 and a Mn/(Mn+Fe) of 0.209, whereas ixiolite displays the corresponding values of 0.444 and 0.425, respectively.