

湘南矿产所的大力支持,在此谨致谢意!

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## ORE - FORMING CHARACTERISTICS AND PROSPECTING SIGNIFICANCE OF THE BAILASHUI TIN DEPOSIT IN THE FURONG OREFIELD

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**Abstract:** The Bailashui tin deposit is a large new - finding and preliminary evaluating deposit in the new round of geological survey. Fault structures, mainly NNE - NE directions, are well developed in the deposit and control the distribution of tin ore belts. After discussion on mineralizing characters, it is concluded that, (1) quartz veins distributed in all places of the Bailashui mine are synchronous results with Sn mineralization; (2) Sn mineralizing are higher varying and high - grade Sn ores are generally located in strong structural fractures; (3) ore - forming elements in different rock bodies of the area are obviously higher than earth the average of crustal granite with some elements in the rock bodies several decade higher, showing significant ore potentiality; (4) REE constitute characteristics of magmatic rocks in the region is extremely resemble, REE chondrite standardize curve of rocks and ores in the Bailashui mining area have the same variety characteristics, displaying the rocks and ores are evolving results of the same magma and tin mineralization is tightly related with fine - grained granite.

**Key words:** tin deposit, mineralization character, REE characteristics, Bailashui, Southern Hunan province

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