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再论紫金山矿田成矿系列与成矿模式

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摘要:

紫金山矿田是由我国大陆发现的首例高硫型浅成低温热液矿床-紫金山铜金矿床为主要组成部分，该矿床深部和边部相继发现了斑岩型铜(钼)矿、中低温热液型铜矿和低硫浅成热液型银(金、铜)矿、火山岩型铀矿及高温热液型钨锡矿异常等。自晚侏罗世开始，矿田内经历了多期次的构造作用、岩浆活动及其热液蚀变,致使紫金山矿田形成多期次的成矿作用，它们相互叠加、富集以及空间上侧向排列的特点,构成“构造的构造”、“体中体”、“蚀变的蚀变”、“矿化的矿化”等特征的复杂多样构造-流体-成矿系统,并具有显著的自上而下“U、Ag→Au→Au、Cu→Cu→Cu、Mo→W、Sn”矿化垂直分带特征和“多层楼”成矿模式。在空间上不同成因类型矿床又显现出侧列分布的格局，构成了独特的“紫金山式”成矿系列与成矿模式。通过对比研究表明：在紫金山铜金矿床深部仍存在着斑岩型铜（钼）矿床以及边部可能具有的高温热液型钨锡矿床等，展现出矿田内具有广阔的找矿新领域，为配合进一步地质勘查找矿工作提供科学依据。

关键词：矿化垂直分带 “多层楼”成矿模式 成矿系列 紫金山矿田

The Metallogenic Series and Modle of Zijinshan Mining Field

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Abstract:

The ijinshan orefield ,a high- sulfide equithermal deposit discovered at first in China,is primary composed by Zijin copper-gold.The porphyry copper (molydenum) deposit,the meso-low-temperature hydrothermal copper deposit,the lower- sulfide epithermal silver(gold-copper) deposit,the volcanic uranium deposit and the high-temperature hydrothermal tungsten(tin) geochemistry abnormity were discovered in its depth and vicinity. From late Jurassic era,it had gone through multiphase-tectonic movement ,multiphase-magmation and mulaiphase-hydrothermal alteration ,and which had resulted in multiphase-mineralization. In this case, this paper points out that the Zijinshan orefield`s various tectonics-fluids-mineralization system is characterized by tectonic structure,body in body,alteded alteration,mineralized mineralization,and it possesses a spatial distribution of deposits characterized by minerlization vertical zoning features, “U、Ag→Au→Au、Cu→Cu→Cu、Mo→W、Sn”and “multi-floor building “ forming deposits modle. The vary metallogenic deposits appear unique distributing pattern, thus constitutes “Zijinshan” metallogenic series and metallogenic modle. Compare with other deposits,the porphyry copper (molydenum) deposit below copper-gold deposit and the high-temperature hydrothermal tungsten(tin) at its vicinity are cognitioned It indicates the new spatiotemporal field in discovering such ore type.,and offeres evidence for further prospecting

Keywords:minerlization vertical zoning features Multi-floor building modle metallogenic series Zijinshan orefield

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