## U–Pb ISOTOPE GEOCHRONOLOGY AND GEOCHEMICAL CHARACTERISTICS OF THE ROCKS FROM VOLTUŠ AREA IN THE ROŽMITÁL BLOCK, CZECH REPUBLIC

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The studied area of the Rožmitál Block, which includes Holý Vrch, Trepanda, Třemešný Vrch and Voltuš is built by sedimentary (conglomerate, quartzite, sandstone, sandy shale and graywacke), volcanoclastic (mainly rhyolitic tuffs) and igneous sequences of Late Proterozoic and Early Palaeozoic age. The sedimentary, volcanoclastic and igneous rocks were deformed, metamorphosed and recrystallized. The intrusive rocks are plutonic to subvolcanic granitoid porphyries, which can be classified as rhyodacite, dacite and granodiorite. The primary (igneous) mineral paragenesis comprises quartz, plagioclase, K-feldspar, biotite and hornblende. The secondary paragenesis is represented by chlorite, muscovite, epidote (clinozoisite), actinolite and rarely tourmaline. The accessory minerals are apatite, zircon, monazite, titanite, magnetite and rarely allanite. The porphyries were also affected by hydrothermal alteration processes.

Preliminary U–Pb dating of zircons from the Voltuš granitoid rocks suggests a Variscan age between ca. 345 and 370 Ma, i.e., similar to those previously reported from the Central Bohemian Pluton and the adjacent orthogneiss bodies (Košler et al., 1993; Dörr et al., 1996; Holub et al., 1996).

There are many similar petrological and geochemical features between granitoid rocks in the Central Bohemian Pluton (especially the Blatná suite) and the granitoids of the Voltuš area and the Petráčkova Hora deposit. It seems likely that the studied granitoids represent an apophysis of the Central Bohemian Pluton.