



ÚSTAV GEOLOGIE A PALEONTOLOGIE PŘÍRODOVĚDECKÉ FAKULTY UNIVERZITY KARLOVY

si Vás dovoluje pozvat na kombinovaný paleontologicko-sedimentární seminář (MG421S35A a MG422S42A),
který se koná

ve středu **19. října 2022** od **14:50** ve **Velké paleontologické posluchárně**



What is the difference in high-precision CA-ID-TIMS zircon dating?

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U-Pb zircon geochronology has experienced a huge boom in recent years in terms of new methods and a wide range of applications in geosciences. The differences, benefits, and pros/cons of several U-Pb zircon dating methods (LA-ICP-MS, SHRIMP/SIMS, and CA-ID-TIMS) will be introduced. Examples, where all three methods were applied for the same rock samples will be discussed. Emphasis will be focused on high-precision CA-ID-TIMS dating on the examples of the Erzgebirge region, where a sequence of magmatic intrusions was established. Application of CA-ID-TIMS data on German sedimentary basins, associated syn-sedimentary volcanism, and basin sedimentation history will be debated.

