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Martian scientific projects in Krakow

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In this presentation, we summarize the aims and the results of three Martian projects currently carried out in Krakow by three interdisciplinary research groups from the Jagiellonian University, and the AGH Science and Technology University. The aim of the first project is to develop a novel technique for the Martian subsurface tomography using electromagnetic waves of extremely low frequency (ELF). In the second project, we focus on determination of aeolian transport in equatorial regions on Mars using experimental and numerical simulations as well as investigating Martian analogs on Earth. The aim of the last project is to provide and develop IT tools for automatic processing and analysis of data acquired during Mars missions, which is crucial for all projects as the number of available data increases significantly.