Contribution ID: **90** Type: **Software programming (Java, 3D modelling, LabView, SCADA WinCC etc.)**

R&D of the r, φ scanner mechanical construction for the scintillator detector background radiation measurements

The aim of this project is the introduction to research and development of a prototype drive system for various sensors in the r, φ coordinate system. The device was designed for extensive solutions, but in this case, the focus was particularly on the cosmic ray measurement system. An extremely important issue was the easiest possible adaptatability to various applications, therefore the proposed solution was made mostly in the technology of aluminum profiles. The designed solution is expected to study areas up to 1m in length and 2π angle. After auspicious prototype tests and meeting the primary assumptions, the final device is assumed to examine the expanse up to 3m in length and 2π angle. The continuation and further progress of the project will consist of the manual preparation of the measuring device, software development and real cosmic ray measurements performance.

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