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[Abstract]

Equipment and technical specifications for ground-based monitoring of solar radiation at the Rozhen National Astronomical Observatory

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Abstract: We present observational data from the newly established monitoring station for measuring solar radiation across various ranges of the electromagnetic spectrum (UVA, UVB, visible light, and infrared) at the Rozhen National Astronomical Observatory. The data is openly and freely accessible, with an updated archive that allows for the retrieval of past events. The main parameters and equipment of the station are described. Additionally, the station includes sensors for recording and building an online database of rainfall and snowfall measurements.

Keywords: Solar radiation, UV, Space Weather

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