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Radiation Fields, Effects and Risks in Human Space Missions (5)

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CURRENT STATUS OF TIMEPIX-BASED RADIATION MONITORING DEVICES IN SPACE AND A
FIRST REPORT ON THE NEW TIMEPIX2 CHIP.**Abstract**

The use of Timepix-Based devices for monitoring in the space radiation environment, both for crew dosimetry and scientific applications is growing as the number of groups around the world are choosing to use this technology. A one-day workshop is being held at CERN on March 13, 2018 to gather representatives of those groups to form an impromptu user's group to share experiences and to advise each other of planned uses, both with the currently available Timepix chips and the newer additions such as the existing Timepix3, and the imminent arrival of the Timepix2 evolution of the original Timepix. First results from the testing of the new Timepix2 are expected to be available for presentation at the IAC meeting in Bremen this fall.