A Planned Muon Detector for Space Weather Storm Nowcasting in Europe

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It is planed to build in Greifswald a cosmic ray muon detector to measure the interplanetary propagation of CME and shock waves in real time. The physical background of the detection and the characteristics of the muon telescope will be described. The foreseen related space weather service – the online determination of the appearance time of geomagnetic storms – within the European, Japanese and Australian network will be explained.