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Future spacecraft missions to the Sun

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Solar energetic particles (SEPs) have aided our understanding of the structure of the Sun and the heliosphere between the Sun and the Earth on a more fundamental level. Historically, SEP events have been classified as either 'impulsive' or 'gradual' with solar flares and jets associated with the former and coronal mass ejections (CMEs) with the latter. Recently, this classification system has been challenged with an increasing number of in situ and remote sensing observations from several solar-orientated spacecraft. In this study, we investigate new scientific questions in light of the planned launch of the Solar Orbiter and Solar Probe spacecraft developed by the ESA and NASA, respectively.

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Dr. R.D.T. Strauss
Dutoit.Strauss@nwu.ac.za
North-West University, Center for Space Research

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Primary author: Mr STEYN, Ruhann (North-West University)

Co-author: Dr STRAUSS, Du Toit (Centre for Space Research, North-West University)

Presenter: Mr STEYN, Ruhann (North-West University)

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