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## Cosmic ray ground level enhancements: Power of pulse shape

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**Abstract content** (Max 300 words) **Formatting & Special chars**

Ground level enhancements (GLEs) of the cosmic-ray intensity have been observed 71 times since over seven decades. GLEs are due to sudden increases of solar energetic particles associated with large eruptive episodes. GLEs have been, controversially, divided into two distinct categories, gradual (classical) and impulsive events. Some recent findings argued that some GLEs are too impulsive to be accelerated in the eruptive episodes. Here we investigated this hypothesis by studying time profiles of ten GLEs, which were observed with excellent data coverage of associated solar eruptions. Preliminary results support that the shape of the profile is a powerful indicator of propagation conditions between Sun and Earth. The average continuous range from gradual to impulsive will be presented

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