

# Dating recent surface processes using cosmic ray generated $^3\text{He}$ in rocks.

## University of Manchester - Cosmic ray exposure histories of Apollo 14, Apollo 15, and Apollo 16 rocks (Conference)



### Description:-

-Dating recent surface processes using cosmic ray generated  $^3\text{He}$  in rocks.

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## Terrestrial Cosmogenic Nuclide Dating

A different interpretation by invokes continuous uplift of the southern Rocky Mountains as the cause for this spillover event and indirectly brackets the timing of spillover to ca. Cliver Simultaneous Observation of Solar Neutrons from the ISS and High Mountain Observatories in association with a flare on July 8 Y.

## Seismic hazard reappraisal from combined structural geology, geomorphology and cosmic ray exposure dating analyses: the Eastern Precordillera thrust system (NW Argentina)

Individual fault planes and measured slip vectors at each site are plotted, arrows on fault planes point in directions of horizontal azimuth of the slip vectors. Marchenko A production scenario of Galactic strangelets and an estimation of their possible flux in solar neighborhood S.

## Cosmic ray labeling of erosion surfaces: in situ nuclide production rates and erosion models

Zhao Two Decades of KASCADE and KASCADE-Grande Measurements: Some Achievements A.

## Evolution

These tests have been performed on what are thought to be the earth's oldest surviving rocks, meteorites, and moon rocks. Hahn The Denoised, Deconvolved, and Decomposed Fermi gamma-ray sky M. Because cadmium shielding was used during irradiation,  $^{38}\text{Ar}$  produced from  $^{37}\text{Cl}$  can be neglected.

## Cosmic ray labeling of erosion surfaces: in situ nuclide production rates and erosion models

Along the three segments, inversion of fault slip data shows that the development of the Eastern Precordillera between  $31^\circ\text{S}$  and  $32^\circ\text{S}$  latitude is

dominated by a pure compressive reverse faulting stress regime characterized by a  $N110^{\circ} \pm 10^{\circ}E$ -trending compressional stress axis  $\sigma_1$ .

#### **40 Ar/ 39 Ar and cosmic ray exposure ages of plagioclase**

The approach of is based on 244 worldwide earthquakes, with magnitudes ranging between 4. Both sets of faults at the southern Sierra de Villicúm and the northern Sierra Chica de Zonda are bedding-parallel, and interpreted as flexural-slip faults. Indeed, those faults may generate destructive earthquakes that produce either conspicuous surface ruptures or small and questionable surface displacements, or even no evident surface rupture.

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The Tulum Valley, a large syncline structure is mainly deformed by bedding-slip faulting near the eastern piedmont of Eastern Precordillera.

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