# "Analysis Result of the High-Energy Cosmic-Ray Proton Spectrum from the ISS-CREAM Experiment"

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## **1. ISS-CREAM experiment**



Design to direct measurement high-energy cosmic rays

#### **Direct measurement (TeV – PeV)**

Silicon Charge Detector (SCD) : Charge measurement, tracking C-Target & Calorimeter (CAL) : Energy measurement, tracking, trigger Top/Bottom Counting Detector (TCD & BCD) : e/p separation, trigger Boronated Scintillator Detector (BSD) : e/p separation by neutron detection

### 2. Analysis

2.1. Tracking & charge determination



Tracking by CAL & charge determined by SCD

#### 2.2. Spectral deconvolution



Correction for the small energy dependence of the energy resolution due to shower leakage

## 3. Result



#### 2.3. Charge distribution & Absolute flux for protons



Consistence result with prior CREAM experiment

Observed spectrum softening ~ 10 TeV, It is consistence result as the CREAM, DAMPE and NUCLEON

Values for the results are,

; index : 2.66 ( $\pm$ 0.03) with  $\Delta\gamma$  = 0.33 ( $\pm$ 0.07) with spectral break energy at ~ 11.9 TeV with significance 4.62 sigma