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Unique Properties of the 3rd Group of Cosmic Rays: Results from the Alpha Magnetic Spectrometer

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We will report the latest results on the properties of nitrogen (N), sodium (Na), and aluminum (Al) cosmic rays in the rigidity range 2.15 GV to 3.0 TV based on 5 million N, 0.58 million Na and 0.64 million Al nuclei collected by the AMS. We observe all three fluxes are well described by the sums of a primary cosmic ray component and a secondary cosmic ray component. With our measurements, the abundance ratios at the source of N/O, Na/Si, and Al/Si are determined independent of cosmic ray propagation.

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