

# The Origin of Galactic Cosmic Rays as Revealed by their Composition

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- **What is this contribution about?**

The origin of Galactic cosmic rays (GCRs) is studied from their chemical composition

- **Why is it relevant / interesting?**

We obtain new information on the phases of the interstellar medium from which the CRs are extracted

- **What have we done?**

We develop a new model to study the composition, ionisation state and dust content of the GCR source reservoirs, from recent data of the AMS-02, Voyager 1 and SuperTIGER experiments

- **What is the result?**

For the first time, the measured abundances of all primary and mostly primary CRs from H to Zr are well explained, including the overabundance of  $^{22}\text{Ne}$