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The origin of galactic cosmic rays: progresses, impacts and perspectives

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Cosmic Rays with energies below a fraction of EeV are coming from our galaxy but the way they are produced and they propagate to the Earth is still widely unknown. I will address recent progresses made in our understanding of Cosmic Ray acceleration and propagation on the point of view of microphysics and phenomenological studies. Then, I will shortly discuss why Cosmic Rays feed back are important to consider in different fields of modern Astrophysics from young stellar objects to the largest galactic scales.

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Classification de Session: Shocks & Cosmic rays: Theory & Simulations