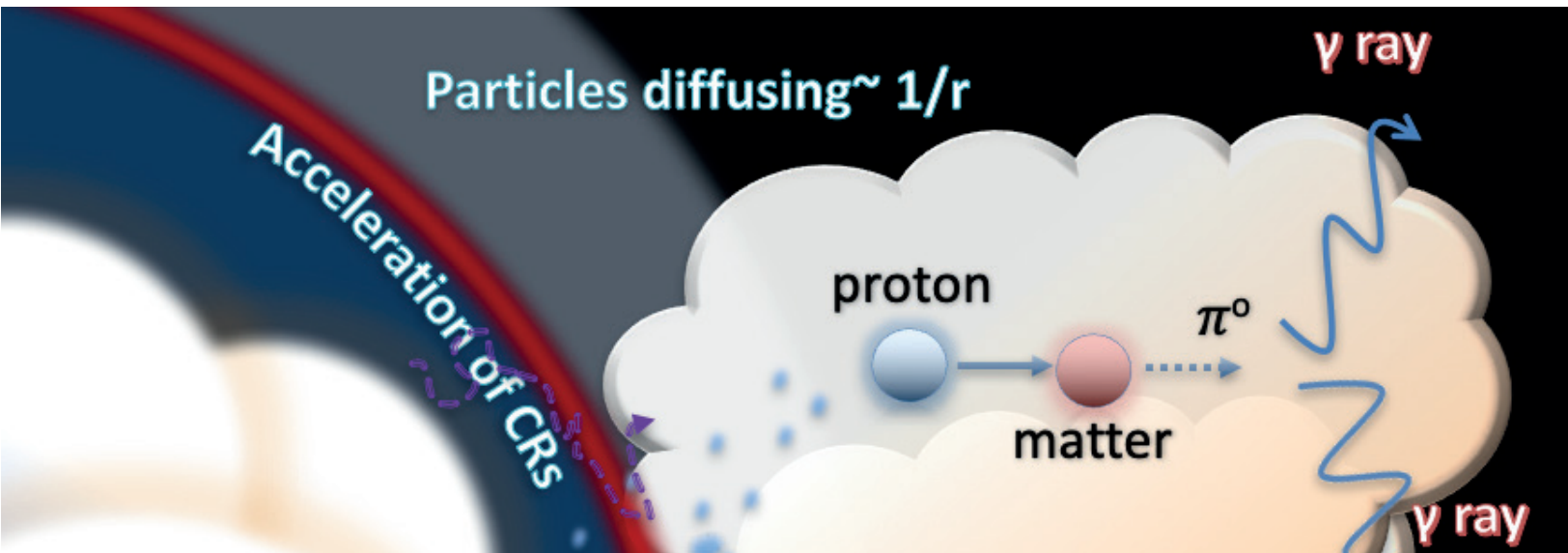


PHYSICS COLLOQUIUM.



Galactic Factories of Cosmic Rays: Understanding Cosmic Rays through Gamma-Ray Observations

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DESY | Zeuthen | Platanenallee 6 | SR 3

Cosmic rays below 10^{15} eV are believed to come from our own Galaxy. Their origin and propagation can be studied through the imprint they leave on gamma-ray radiation from background sources due to their interaction with matter and radiation fields. Gamma-ray sources of different sizes (few thousand kms to kilo-parsecs) can directly probe acceleration and propagation of CRs on various scales. I will review the status of this research field and the most outstanding discoveries, and discuss its prospects with the CTA observatory.