P71: High energy particles from SN-explosions near the Galactic Center

Ernst A. Dorfi, Daniel Steiner, Univ. Vienna, Austria

- Galactic CRs up $10^{15}$eV
- Idea: Repeated SN-Explosions open Superbubble and drive galactic wind
- Individual shock waves merge
- Longer time scales ($\sim 10^8$ yrs), larger spatial extensions ($\sim$ few kpc)
- Particle re-acceleration close to the galactic plane
- Galactic Winds are time-dependent