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# Cosmic Rays Supernovae Interstellar Medium

**chapter 8 cosmic rays - institute for nuclear theory** - of the interstellar medium. secondary cosmic rays are those produced by the interactions of the primary rays in the atmosphere or in the earth. also products of cosmic ray interactions ... to the fact that supernovae acceleration of cosmic rays is limited to about this energy. this would argue that the cosmic rays above this energy either have ... **cosmic ray sampling of a clumpy interstellar medium** - cosmic rays are injected at the center of the region. second, in accordance with models of distributed cosmic ray acceleration such as second-order fermi acceleration by interstellar turbulence, we inject the particles randomly throughout the region. finally, in agreement with models of point source cosmic ray **cosmic ray acceleration in superbubbles and the ...** - we review the evidence for cosmic ray acceleration in the superbubble/hot phase of the interstellar medium, and discuss the implications for the composition of cosmic rays and the structure and evolution of the interstellar medium (ism). we show that the bulk of the galactic supernovae, their expanding remnants, together with their metal-rich grain **diffusion of cosmic rays in a multiphase interstellar ...** - diffusion of cosmic rays in a multiphase interstellar medium swept-up by a supernova remnant blast wave soonyoung roha, shu-ichiro inutsukaa,, tsuyoshi inoue department of physics, graduate school of science, nagoya university, nagoya 464-8602, japan bdivision of theoretical astronomy, national astronomical observatory of japan, osawa, mitaka **acceleration of galactic cosmic rays in the interstellar ...** - challenges have arisen to diffusive shock acceleration as the primary means to accelerate galactic cosmic rays (gcrs) in the interstellar medium. diffusive shock acceleration is also under challenge in the heliosphere, where at least the simple application of diffusive shock acceleration cannot account for observations. in the heliosphere, **supernovae and the origin of cosmic rays - phys** - supernovae and the origin of cosmic rays 22 april 2013 a false-color, multi-wavelength image of the remnant material from supernova sn1006, an explosion so bright **the source of cosmic rays: 3. supernova grain composition** - interstellar medium because the bulk of the supernovae occur in the hism where the shocks suffer much lower radiative losses than those of supernovae in the denser average interstellar medium. 1 introduction: although supernova shocks are generally thought to be the source of the energy in cosmic rays, the source **cosmic-ray acceleration by compressive plasma fluctuations ...** - the stochastic particle acceleration by compressive plasma fluctuations is ubiquitous in space. ptuskin (1998) applied the mechanism to cosmic rays propagating in the interstellar medium. he found that it is only marginally effective for the reacceleration of cosmic rays between 0.1-10 gev. **gev - institute for nuclear theory** - of the interstellar medium. secondary cosmic rays are those produced by the interactions of the primary rays in the atmosphere or in the earth. also products of cosmic ray interactions in the interstellar medium (e.g., spallation products from cosmic ray - cosmic ray collisions) are also labeled as secondary cosmic rays. **nasa technical note nasa - tn** - abstract the general problem of supernovae explosions as a possible origin of cosmic rays is reviewed. the shock wave theory of colgate et al., the only detailed model of supernovae explosions to date, predicts a short, intense high energy gamma-ray pulse associated with the explosion and **4 transport of cosmic rays in the galaxy - uni-hamburg** - 4 transport of cosmic rays in the galaxy note, the following discussion follows quite closely the wefel overview article in cosmic rays, supernovae and the interstellar medium, eds. m.m. shapiro, r. silberberg, and j.p. wefel, p44, dordrecht: kluwer academic publishers. a summary of data is given in simpson's article from 1983. **the interstellar medium - lick observatory** - • total mass ~ 5 to 10 x 10<sup>9</sup> solar masses of about 5 - 10% of the mass of the milky way galaxy interior to the sun's orbit • average density overall about 0.5 atoms/cm<sup>3</sup> or ~10-24 g cm<sup>-3</sup>, but large variations are seen • composition - essentially the same as the surfaces of

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