Acceleration of cosmic ray secondaries inside old supernova remnants

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What is this contribution about?

Secondary cosmic rays are produced and accelerated in the shocks of supernova remnants.

Why is it relevant / interesting?

This can explain the positron excess and accommodate the measured antiproton flux.

What have we done?

We have computed the shock-accelerated secondaries and studied the parameter space.

What is the result?

Good fit of proton, helium, carbon, oxygen, boron, nitrogen, positrons and antiprotons!