Review of: "Slow diffusion around pulsar -ray halos and its impact on cosmic rays propagation"

Hongbo Hu[1]

1 Institute of High Energy Physics

Potential competing interests: No potential competing interests to declare.

Minor comments:

1. In the introduction section: “However, if the slow diffusion is uniform in the Galaxy it will lead to disastrous consequences as all the predictions by the diffusive propagation model are wrong, as all the secondary products like B, Li, Be and p^-, e+ and diffuse γ-rays will be improved by orders of magnitude.” “improved” seems to me a typo of “increased”.
2. Colored region in Fig.5 show the pulsar distributions which contribute 50% of observed positron. But the definition seems to me rather obscure. It is better to provide more explanation. I am confused with the problem such as whether the region depend upon energy of positron, what is the region of the rest 50%, and how the 100% region is divided into two 50% regions etc
3. It is great to see that in Fig.6, B1055-52 shows a perfect agreement with AMS02 observation. However, Geminga, B1001 and B0656 are all expected to have large contribution to positron observation which disproved by AMS02. I wonder whether author could provide some comments or discussions in text.