

K-CAPTURE COSMIC RAY SECONDARIES AND REACCELERATION

F.C. Jones (1), A. Lukasiak (2), V.S. Ptuskin (3) and W.R. Webber (4)

(1) Laboratory for High Energy Astrophysics, NASA/GSFC, Greenbelt, MD 20771,USA., (2) Institute for Physical Science and Technology, University of Maryland, College Park, MD 20742,USA., (3) IZMIRAN, Russian Academy of Sciences, Troitsk, Moscow region 142092, Russia., (4) New Mexico State University, Las Cruces, NM 88003, USA..

`frank.c.jones@gssc.nasa.gov`/Fax: +1-301-286-1682

We have investigated the effect of reacceleration on interstellar flux of K-capture secondaries ^{49}V and ^{51}Cr . Several isotopic ratios for these two isotopes are calculated using the galactic diffusion model with and without distributed reacceleration. It is found that the statistical accuracy of the ACE experiment on itself is high enough to see a signature of reacceleration. However, the uncertainties in nuclear production cross sections are probably too large to conclude that reacceleration process took place.