



Does the low energy tail of ACRs contribute to the ENA population?

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Recharging of anomalous cosmic rays in the tail of the heliosphere produces high energetic ENAs (≈ 100 keV), as was observed with SOHO (Czechowski et al. 2001). Recently, we have shown that anomalous cosmic rays also penetrate into the outer heliosheath and even into the interstellar medium. Using our calculations and the Voyager observations at low energies we will be able to extrapolate to low energies, e.g. into the keV range. Here, we will study the recharging of ACRs in the keV range beyond the heliopause and the so generated ENA flux. Especially interesting will be the interaction between the low energy ACRs and the hydrogen wall.