



The IBEX ribbon feature interpreted in terms of a close ENA source downstream of the termination shock

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The recent Interstellar Boundary EXplorer (IBEX) observations have placed great doubt on up-to-now theoretical models of the source of these particles. Presently all existing models assume that the ENA source is located in the outer heliosheath, or beyond the heliopause, lacking any indication of the distinctive ribbon feature clearly emerging from the data. We present first results from a new model trying to reproduce the ribbon, in which the ENA fluxes originate on the downstream side of the termination shock, i.e. the inner heliosheath. The signature of the downstream plasma is strongly determined by the magnetic field tilt angle with respect to the shock normal, and thereby induces a ribbon-like feature around the nose.