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Transit-time aspects of ENAs generated by charge exchange in the outer heliosphere

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Energetic Neutral Atoms (ENAs) have recently emerged as a new tool for remote sampling of astrophyiscal plasmas in the border region of the heliosphere. Pushed forward by the highly successful IBEX mission, time-dependent ENA data of the entire heliospheric boundary layer is now available for a time range of nearly five years. However, the source region and interpretation of the ENAs observed by IBEX is still unclear, and criteria that may allow to differentiate between different models are sparse. We present recent results on transit-time aspects of ENA production models, and demonstrate that a reaction in the ENA flows due to the end of the solar minimum in late 2010 should emerge in the data being taken right now.