Examination of the Evolution of Edge Profiles and Ion Transport Between ELMs on DIII-D\textsuperscript{1} J.-P. FLOYD, W.M. STACEY, S.C. MELLARD, Georgia Tech, R.J. GROEBNER, General Atomics — The measured edge profile evolution between edge-localized modes (ELMs) of DIII-D H-mode discharge 144977 is analyzed with a fine time resolution in order to understand the evolution of diffusive (inferred thermal diffusivities and ion diffusion coefficients) and non-diffusive (particle pinch velocities) transport properties in the edge, using the momentum balance methodology of Ref. \cite{Stacey2011}. The evolution of the density, temperature, rotation, and radial electric field profiles in the edge pedestal between ELMs provides information of these diffusive and non-diffusive transport processes in the pedestal of H-mode plasmas. This methodology is incorporated into the GTEDGE code developed for DIII-D data interpretation. Using a smaller integration time for the charge-exchange-recombination measurements than past analyses allows a more detailed examination of the time evolution of the ion temperature and rotation velocities.

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\cite{Stacey2011}

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