

Abstract Submitted
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Time-dependent of recombining Plasma with Pulse Plasma flow TAKASHI TORADA, AKIRA TONEGAWA, NAOKI MINE, HIROYASU KOMUKAI, TOMOHIKO ONO, KAZUTAKA KAWAMURA, Tokai University, TONEGAWA LAB TEAM — The time evolution of electron density n_e , electron temperature T_e , electron velocity distribution function $f_e(v)$, and hydrogen Balmer series spectra is found to depend on gas pressure in the recombination plasma with pulse plasma flow. The pulse plasma flux is generated by controlling the electric circuits of electrodes of plasma source. The negative spikes were appeared in the time evolution of the Balmer series spectra, which indicate on the transition from ionizing to recombining plasma.

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