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発表タイトル	Dependence of ion and electron temperatures on bulk flow speed in the near-Earth reconnection regions		
発表要旨	It remains an unresolved problem what determines the energy partition between ions and electrons during magnetic reconnection. It is thus important to investigate ion-to-electron temperature ratio around the reconnection regions. This study focuses on macroscopic profiles of the temperatures and ratio in the near-Earth magnetotail. We also examine the dependence of average profiles of ion and electron temperatures and their ratio on bulk flow speed, using data obtained from MMS. We divide observations into different groups according to flow speed normalized by the estimated Alfvén speed in the lobe. The results show that the ion-to-electron temperature ratio in the inflow regions are greater than in the outflow regions. Ion and electron entropies in outflow regions indicate that the heating processes include nonadiabatic heatings. The ion-to-electron temperature ratio increase with increasing flow speed. The results suggest that electrons are heated more effectively than ions on the separatrix. In addition, the results indicate that less energy partitions into thermal energy when more energy partitions into kinetic energy if magnetic field in lobe regions are constant.		
キーワード ・ キーポイント	・MMS ・Temperature ratio ・Magnetic reconnection		