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Analysis of interplanetary magnetic field structures observed by NOZOMI spacecraft

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The interplanetary magnetic field observed by NOZOMI in late 1998 has been compared with those measured by GEOTAIL, WIND, and ACE. Typical separation between NOZOMI and other spacecraft was 1000000 km in y-direction of the GSE coordinate system in October, 1998. A low-beta magnetic structure which appeared on October 8, 1998, was identical over a distance of 1400000 km, while a high-beta part preceding it showed different appearances in magnetic field at separate spacecraft, suggesting that there were temporal variations, or that the scale length of the phenomenon was smaller than a few hundred Earth radii.

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