

## **FINE STRUCTURE OF COLLISIONLESS SHOCKS: RECENT DEVELOPMENTS**

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Recent observations show that the high Mach number shock profile is much more complicated than was expected and contains small scale structure. Recent analysis of an observed high Mach number shock has shown that it cannot be one-dimensional and stationary. Recent simulations show that the front is rippled. Rippling is found to improve shock stability. As it is seen now the shock features are as follows: fine scale structure, three-dimensionality and weak nonstationarity, strong ion gyration, and partial demagnetization of electrons.