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Jerry L. Bona* (bona@math.uic.edu), Dept. Math. Statistics & Computer Science, University of Illinois at Chicago, 851 S. Morgan Street MC 249, Chicago, IL 60607. *Boundary Value Problems for Dispersive Equations in Large Sobolev Spaces*. Preliminary report.

We review recent work with H. Chen, S. Sun and B.-Y. Zhang on boundary value problems for nonlinear, dispersive, and sometimes dissipative wave equations. Results of well-posedness and comparison results between various initial- and boundary-value problems will be the focus of the discussion. (Received June 27, 2007)