1050-74-149 Chris Larsen\* (cjlarsen@wpi.edu). Models for dynamic brittle fracture.

We introduce mathematical models for "sharp interface" dynamic brittle fracture, that make no assumption about crack geometry, etc. We show how they relate to existing models for static/quasi-static fracture, and to phase-field models for dynamic brittle fracture. (Received March 03, 2009)