

**International Workshop  
"Advances in Nonlinear Analysis"  
University of Pittsburgh  
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Dynamics for systems of screw dislocations

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We will discuss short time existence, uniqueness, and qualitative properties of solutions to an evolution law for systems of screw dislocations, under the assumption of antiplane shear. This is joint work with T. Blass, I. Fonseca, and M. Morandotti.