Shock Formation in the Corona

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Burger's Equation

$$\frac{\partial U}{\partial \tau} + U \frac{\partial U}{\partial z} = \frac{\delta}{2} \frac{\partial^2 U}{\partial z^2}$$

$$\delta \equiv \frac{4\eta}{3\rho_0} \qquad\qquad U \equiv \frac{\gamma + 1}{2} V$$

See Whitham,"Nonlinear Waves"
Spherical geometry? Role of magnetic field?