6.0	Entropy Production
In	ras-dynamics
	tially ideal dynamics
	tropy constant
but	
pu)	se steepens and shocks
- 8h	erp gradients produced in shoots
=	couple to diffuore dissipation
⇒	drive collisional transport
1	produce entropy.
N.B.	= Entropy production required
	- 5 to arrow of time
	,

+

to calculate? $\frac{dS}{dt} = ()(-l_{x}^{*} VX) \rightarrow$ DX - thermodynamic force Tx > F/ux dS/d+ ~ () Ox(DX)?

entropy production rate denoity $\frac{d5}{dt} \sim \sqrt{(0 \times V)^2} \sim \sqrt{(\Delta V)^2 (\Delta V)^2}$ ~ (DV) 7/~

but, total entropy production integrated over shock thickness dx d5 ~ d\$ ~ wds $\sim 4v^2(\Delta v)^2$ so total entropy production: ds/dt ~ (AV)3 - independent V collisions but total a self independent of v.