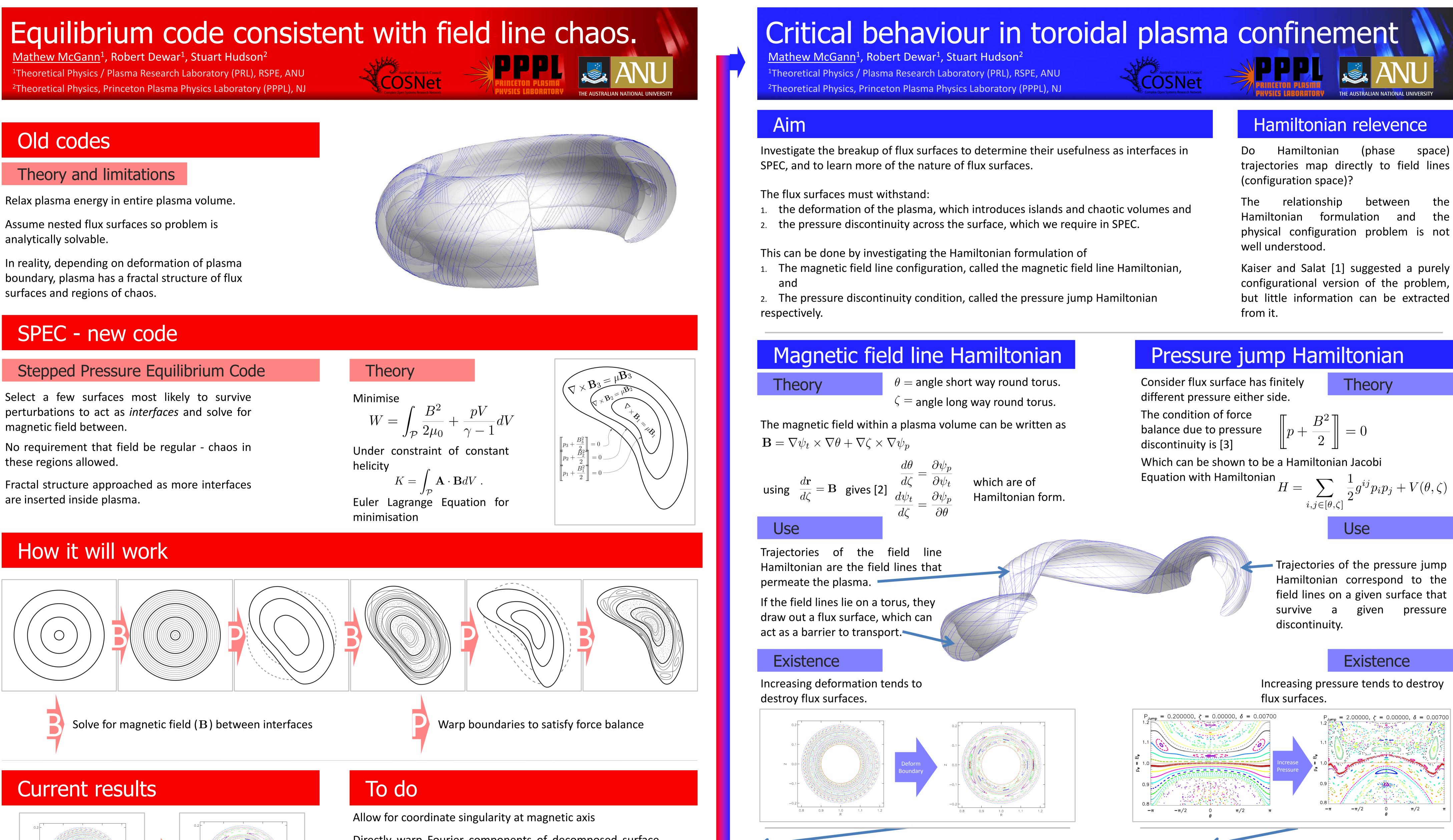
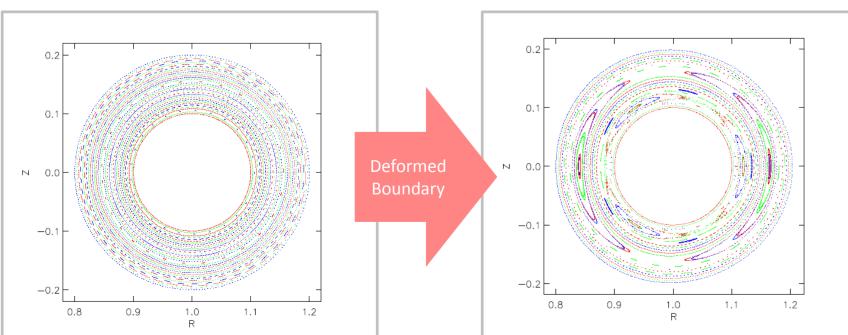
Stepped Pressure Equilibrium Code	Tł
Select a few surfaces most likely to survive perturbations to act as <i>interfaces</i> and solve for magnetic field between.	Minir W
No requirement that field be regular - chaos in these regions allowed.	Unde helici
Fractal structure approached as more interfaces are inserted inside plasma.	Euler minir







Solves for Beltrami field (Euler-Lagrange equation for energy minimisation) within volumes.

Fully parallelised - the field within each volume calculated simultaneously - increasing number of interfaces does not significantly increase computation time.

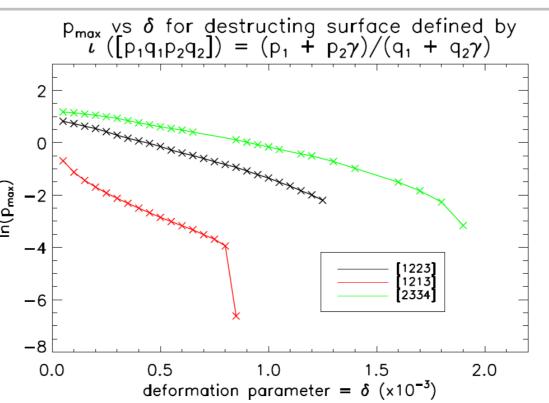
- Directly warp Fourier components of decomposed surface to satisfy pressure balance.
- Identify flux surfaces to use as interfaces.

References

[1] S. Hudson, M. Hole, R. Dewar. *Phys Plasmas* 14 2007 052505 [2] M. Hole, R. Dewar, S. Hudson. J. Plasma Physics 72 2006 p.1167 [3] R. Dewar, M. Hole, M. McGann, R. Mills, S. Hudson. *Entropy* 10 2008 p.621

[4] S. Hudson. *Phys Plasmas* 11 2004 p.667

Combine



While MFLH destroys surface, PJH te for the maximum pressure discont it can withstand.

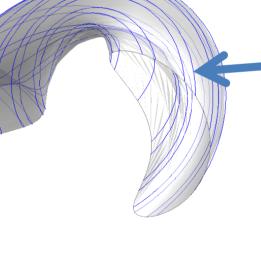
Highly on form dependent deformation and twist of field line.

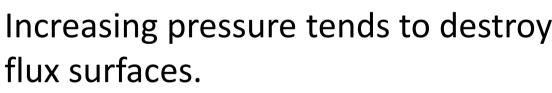
Different flux surfaces support diff pressure for different deformations.

	паппионантегеченсе
es in	Do Hamiltonian (phase space) trajectories map directly to field lines (configuration space)?
and	The relationship between the Hamiltonian formulation and the physical configuration problem is not well understood.
an,	Kaiser and Salat [1] suggested a purely configurational version of the problem, but little information can be extracted from it.

$$\left[p + \frac{B^2}{2} \right] = 0$$

$$\sum_{i,j\in[\theta,\zeta]}\frac{1}{2}g^{ij}$$





	Future Work	
tests it tinuity	Is resilience to pressure shared between classes of surfaces? Find more natural deformation parameter.	
n of	References	
n of	References [1] R. Kaiser, S. Salat. <i>Phys Plasmas</i> 1994	
n of fferent		