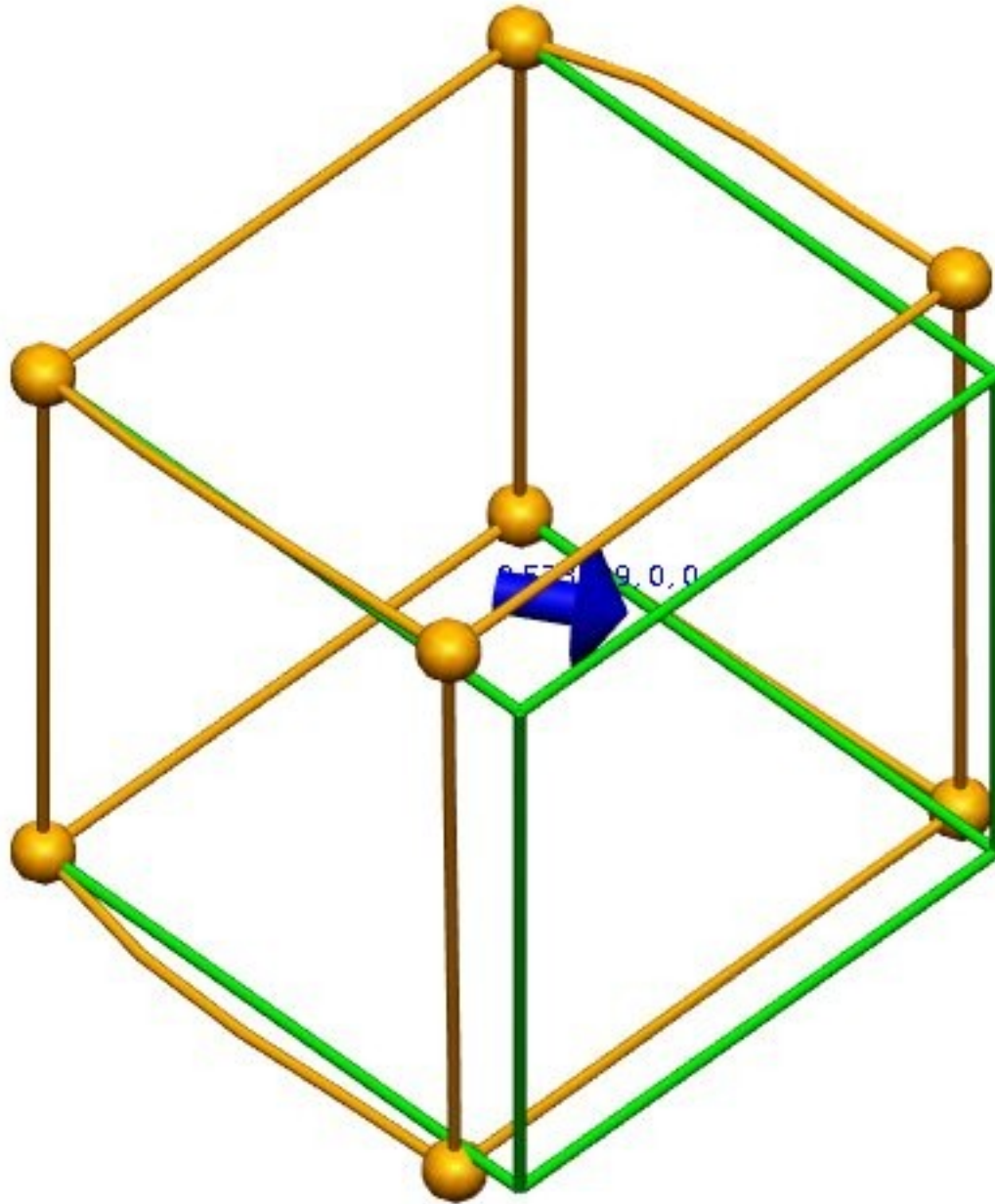# 20th March 2014

Learnt about:

- Hydrostatic pressure – Lagrange multiplier
- Volumetric locking – (cubic-quadratic...)
- Pressure BC application
- CMGUI fibre visualisation
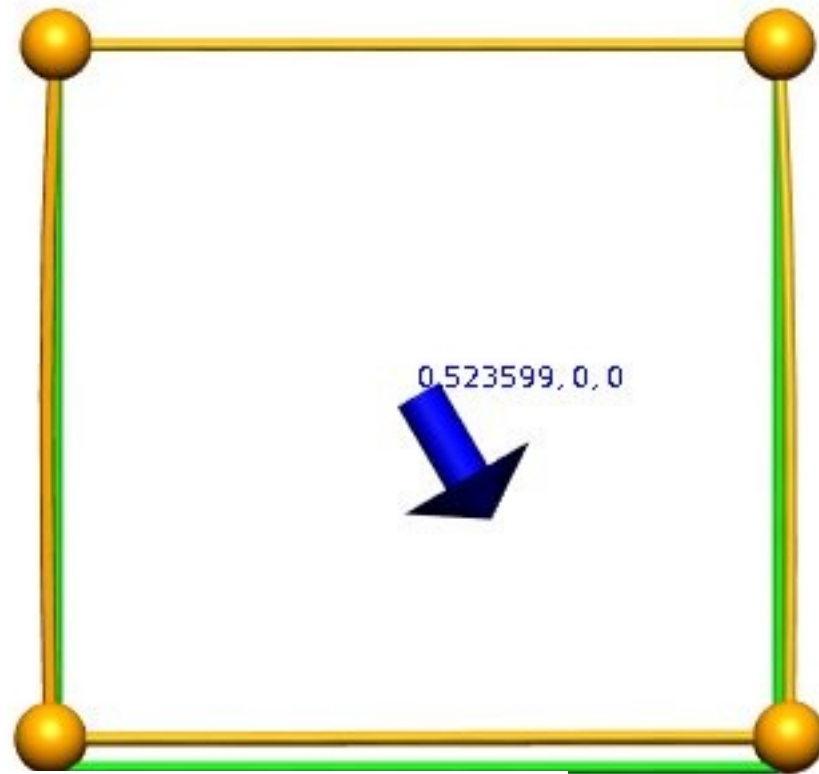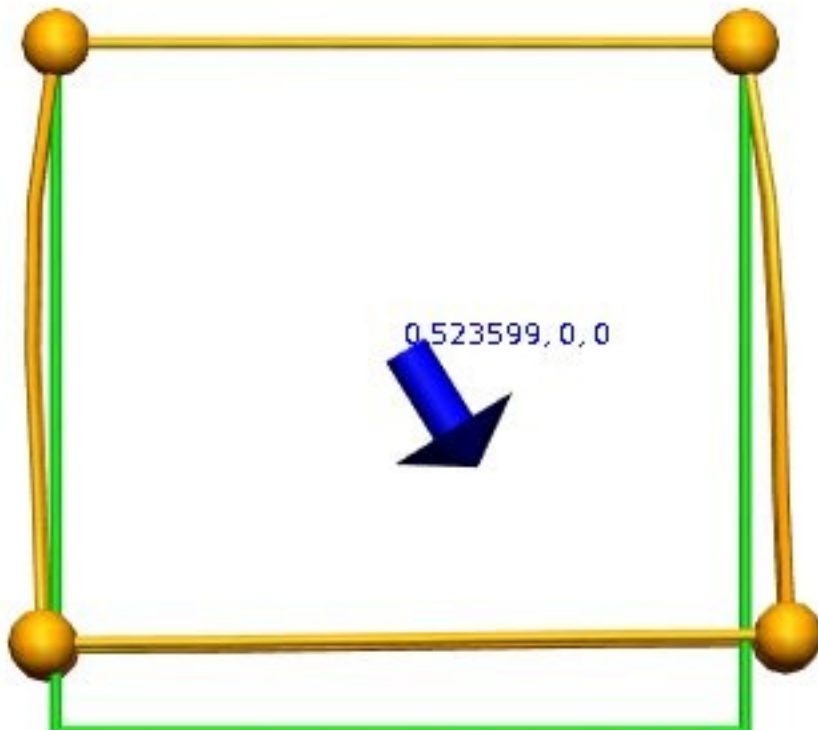- Github version control
- Documentation of code

To Fix:

- Nightlytest.py for python examples
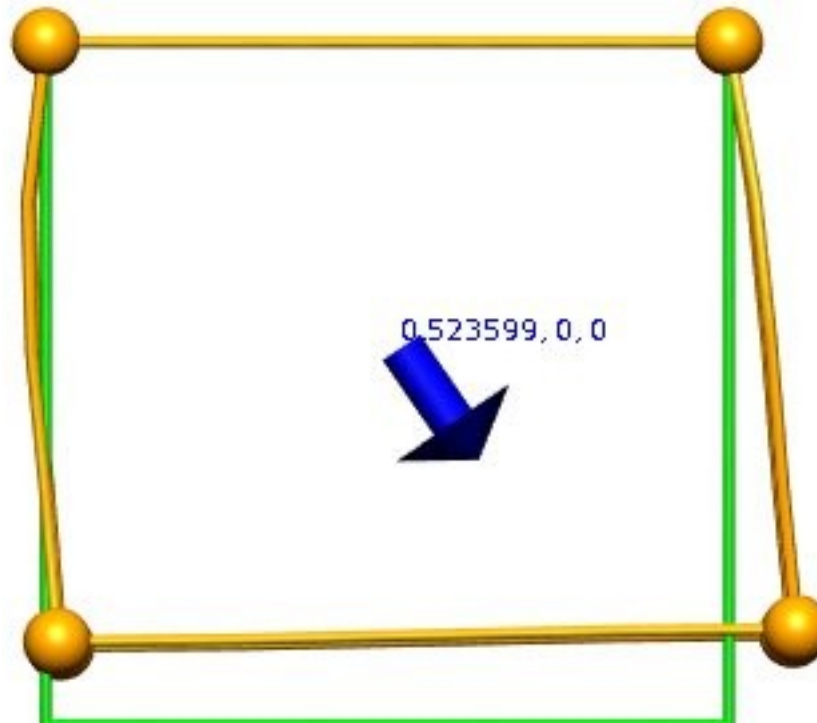- Find actual formulation of constitutive models – passive and contractile.

Transversely Isotropic

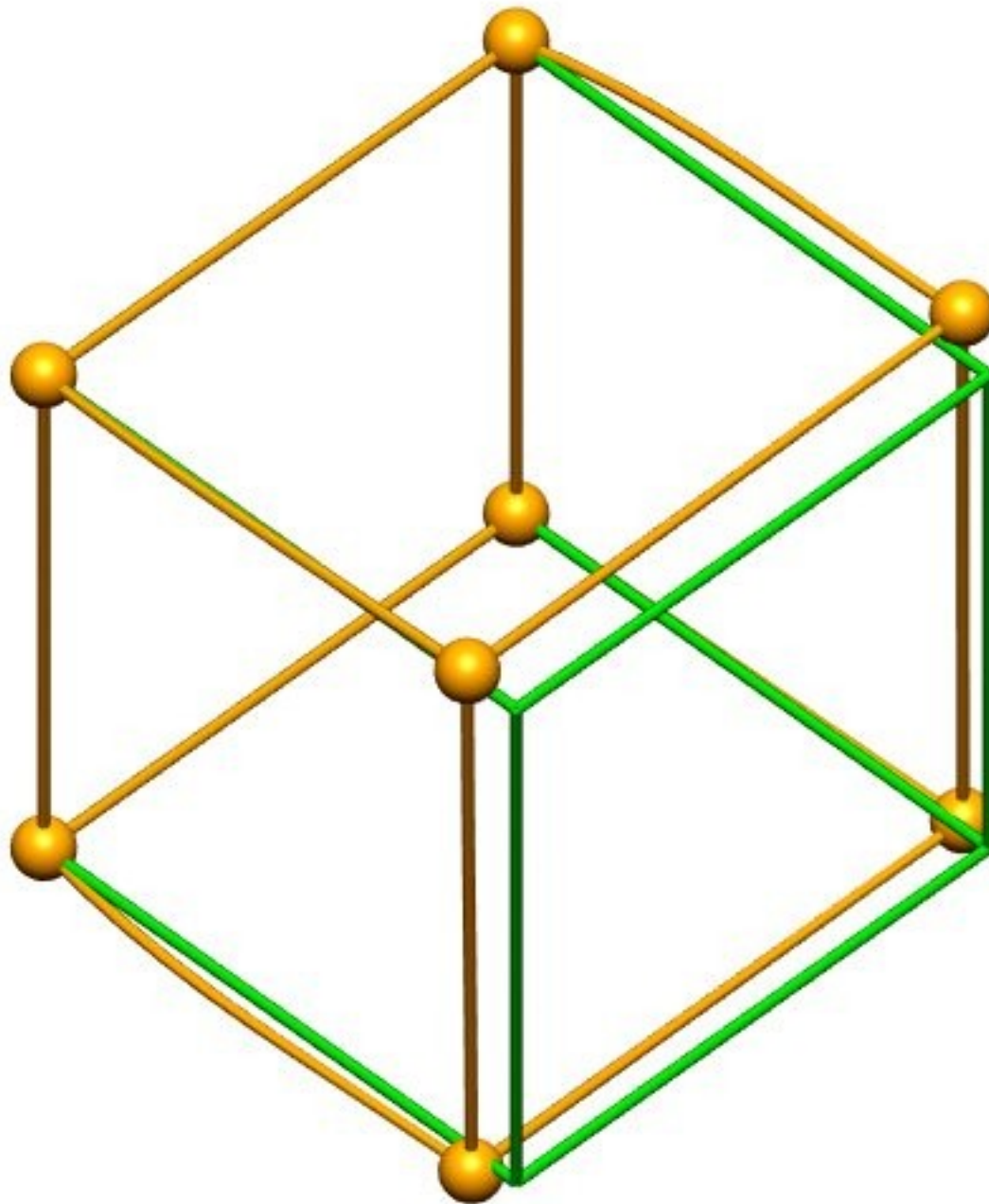Constitutive formulation?
5 coefficients

0.523599, 0, 0
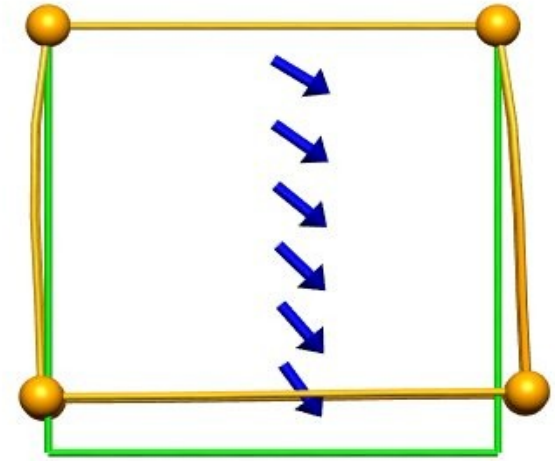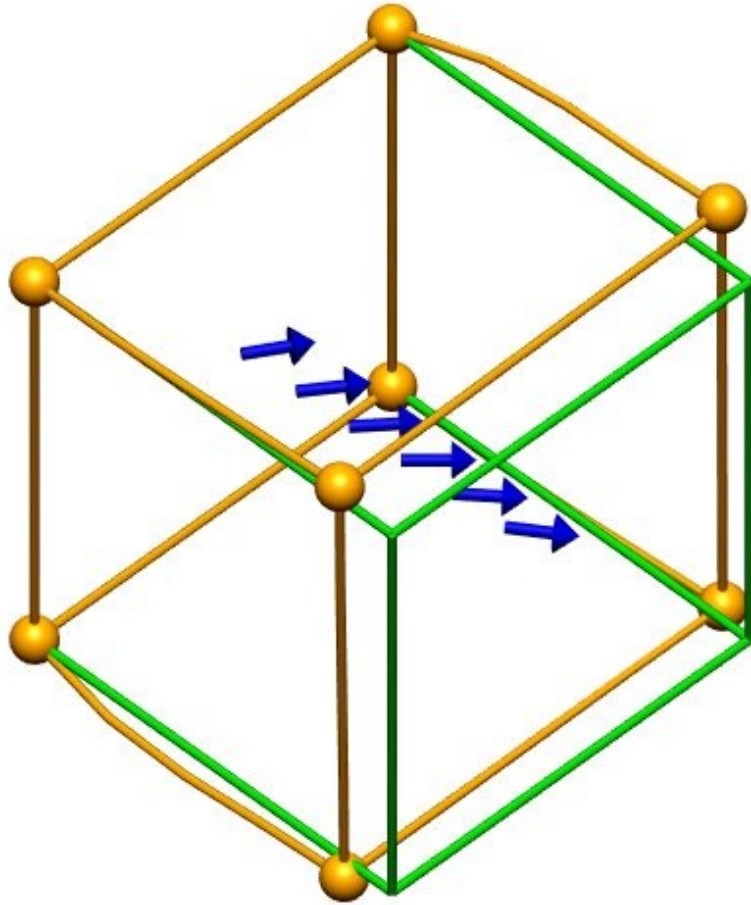
0.523599, 0, 0

Increase
C2 to 20

Increase C3
to 20

0.523599, 0, 0

Pressure application

- using pressure type BC

Heterogeneous Fibre Distribution

Next steps

- Validate against old CMISS examples
- Active Contraction
- Orthotropy (?)

  Using cylinder geometry (with tricubic hermite):
- Unaxial extension
- Torsion
- Pressure Inflation