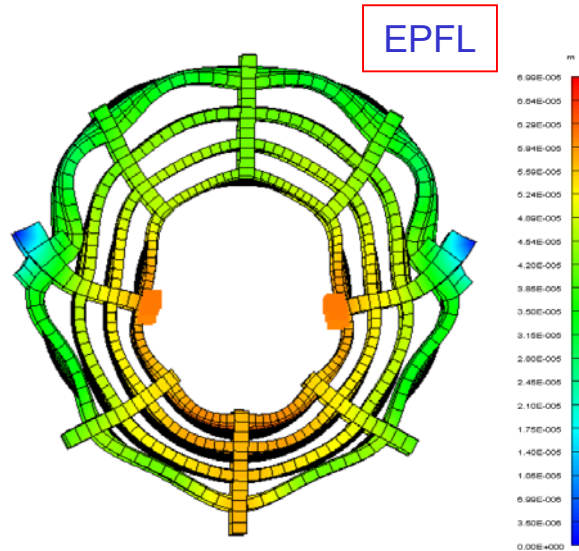


Comparison of SCT Model [EPFL] with SCT Model [LBNL] for Gravity Sag under Pixel Load.

Simple Supports – No Constraints Across Diameter – B6 Interlink Reinforcement



Displacements with Pixel Detector, max = 70 μm

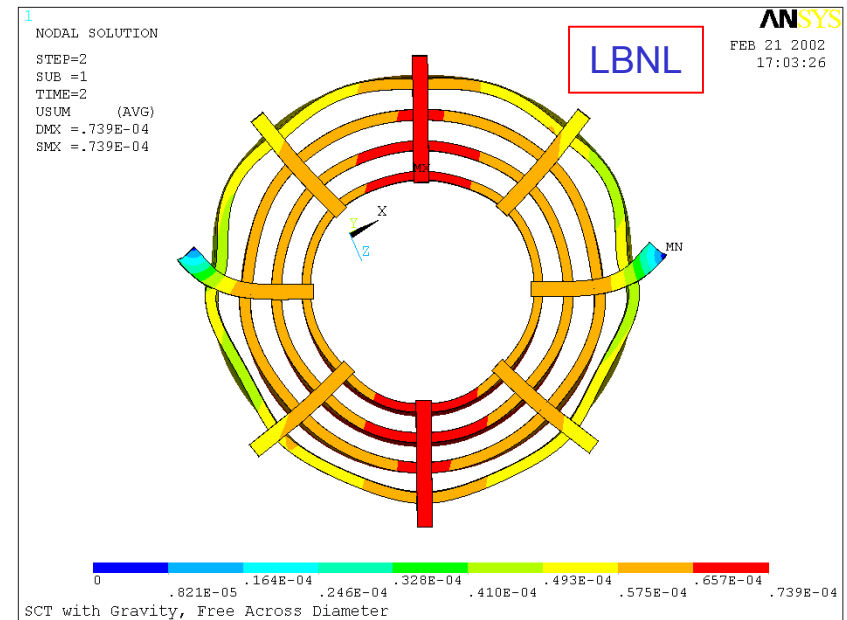
Assumptions:

Pixel Mass = 75 kg (over 4 points)

SCT fixed across Diameter

All SCT properties from EPFL model

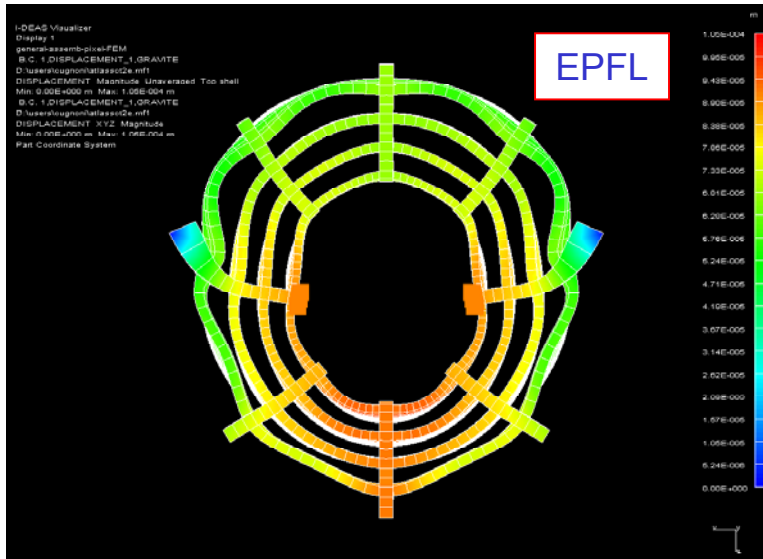
B6 Interlink Reinforcement



Displacements with Pixel Detector, max = 74 μm

Comparison of SCT Model [EPFL] with SCT Model [LBNL] for Gravity Sag under Pixel Load.

Simple Supports – No Constraints Across Diameter – No B6 Interlink Reinforcement



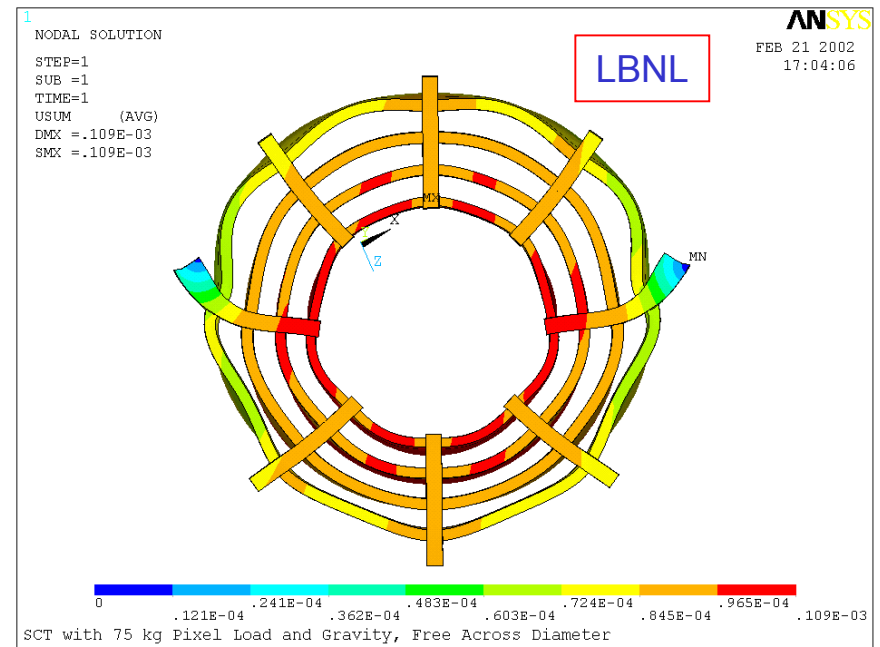
Assumptions:

Pixel Mass = 75 kg (over 4 points)

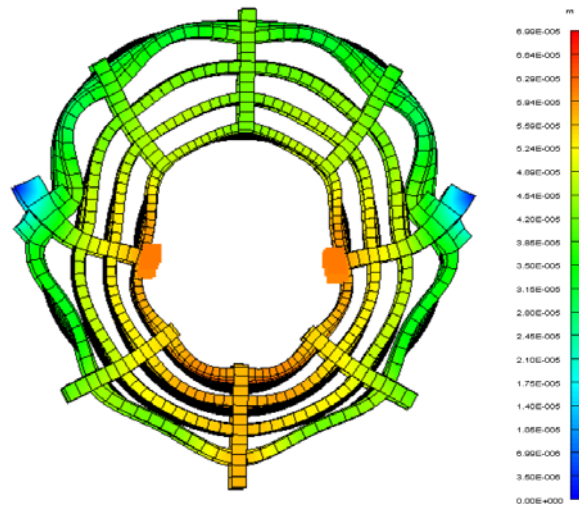
SCT not fixed across Diameter

All SCT properties from EPFL model

No B6 Interlink Reinforcement



Comparison of SCT Model [EPFL] with SCT Model [LBNL] for Gravity Sag under Pixel Load.



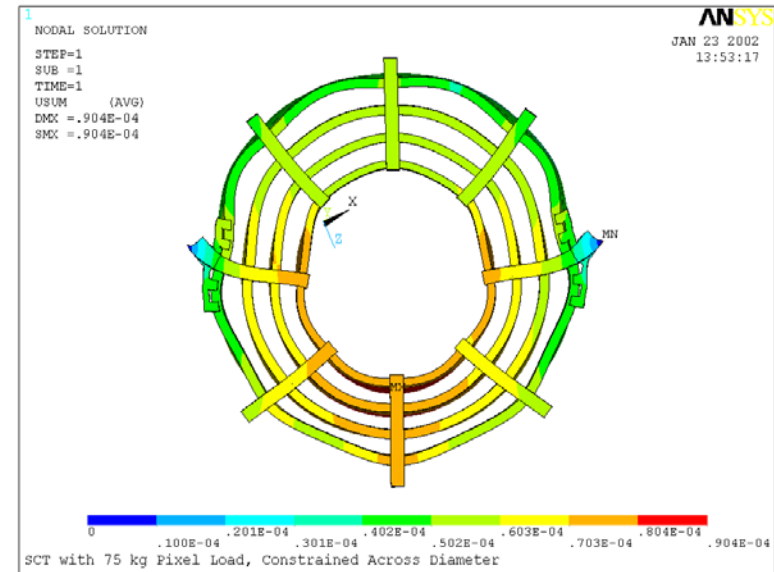
Displacements with Pixel Detector, max = 70 μm

EPFL Assumptions:

Pixel Mass = 75 kg (over 4 points)

SCT *not* fixed across Diameter

B6 Interlink Reinforcement, simple shape



Displacements with Pixel Detector, max = 90 μm

LBNL Assumptions:

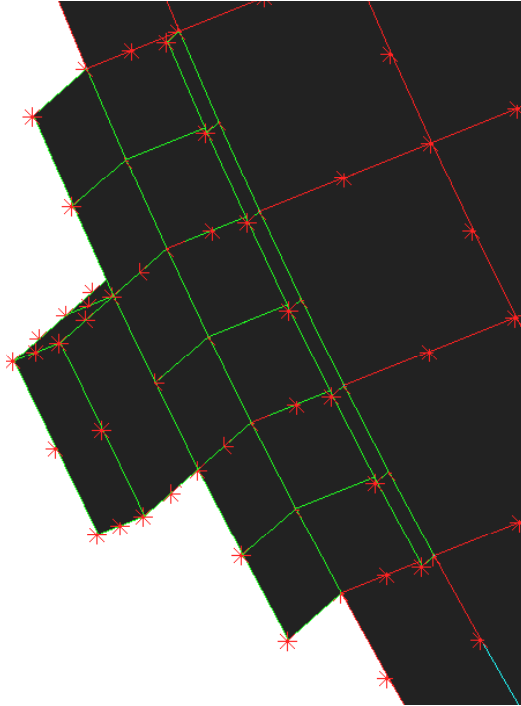
Pixel Mass = 75 kg (over 4 points)

SCT fixed across Diameter

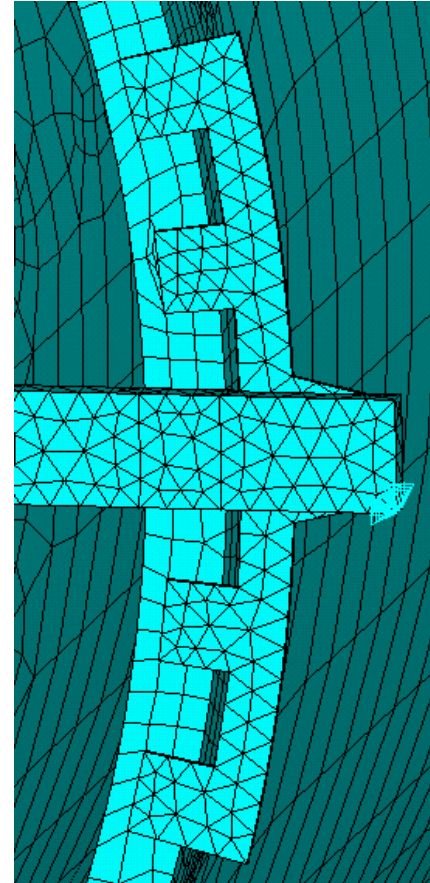
All SCT properties from EPFL model

B6 Interlink Reinforcement, complex shape

Comparison of SCT Model [EPFL] with SCT Model [LBNL] for Mesh density at B6 Reinforcement.



EPFL Model



LBNL Model

Conclusions

- **Overall Model is very accurate**
 - EPFL and LBNL Models agree to within 6% for model with NO B6 Reinforcement
- **Models of B6 reinforcement not in good agreement**
 - Reinforcement shapes are very different
 - Mesh density is very different
 - No results exist for B6 Reinforcement shape modeled at LBNL
- **Initial results (with no B6 Reinforcement) suggest LBNL model is good, and that we should proceed with PST/SCT combined model**