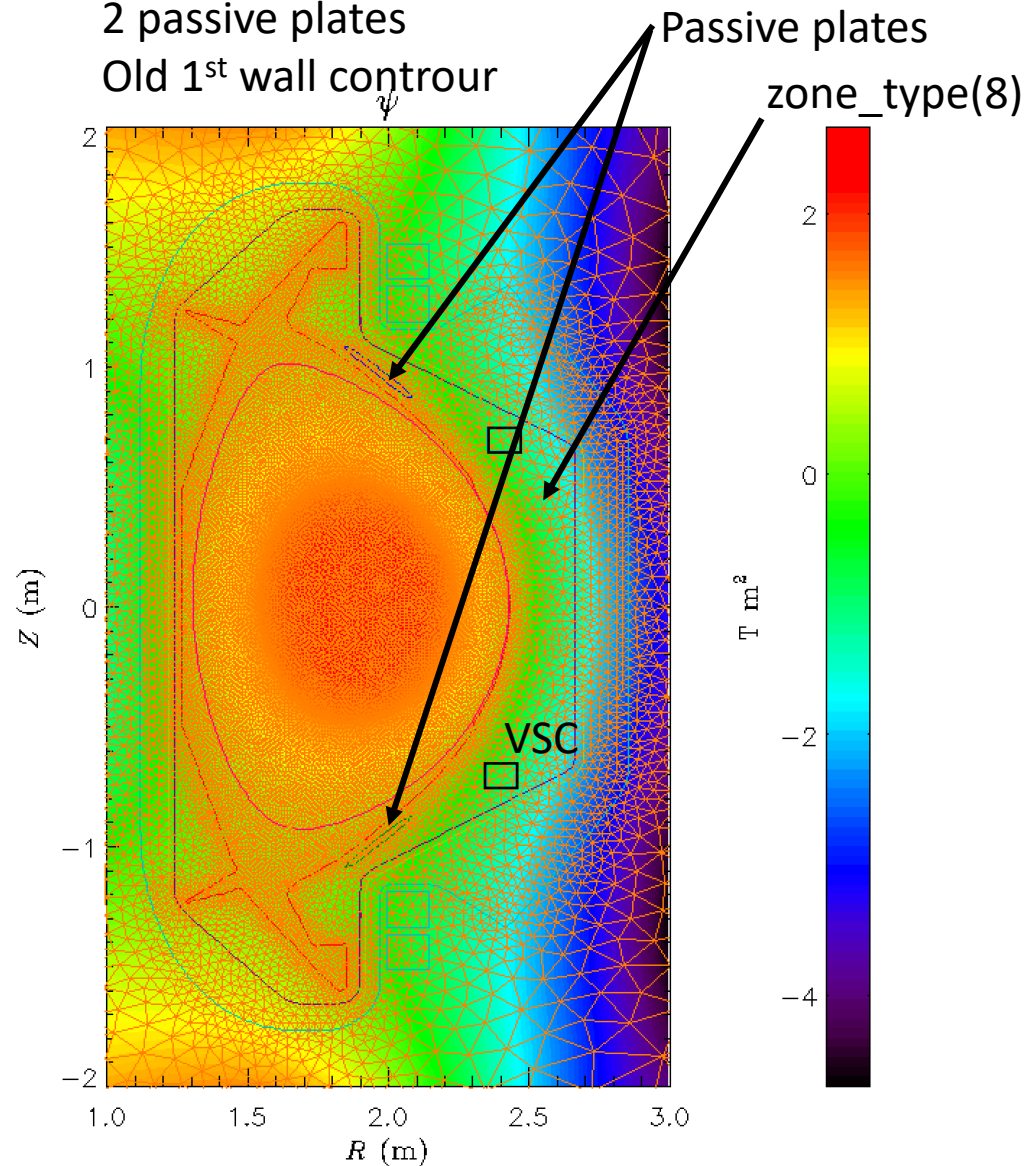


**S1**

**Old mesh model (8 zones)**

2 passive plates

Old 1<sup>st</sup> wall contour

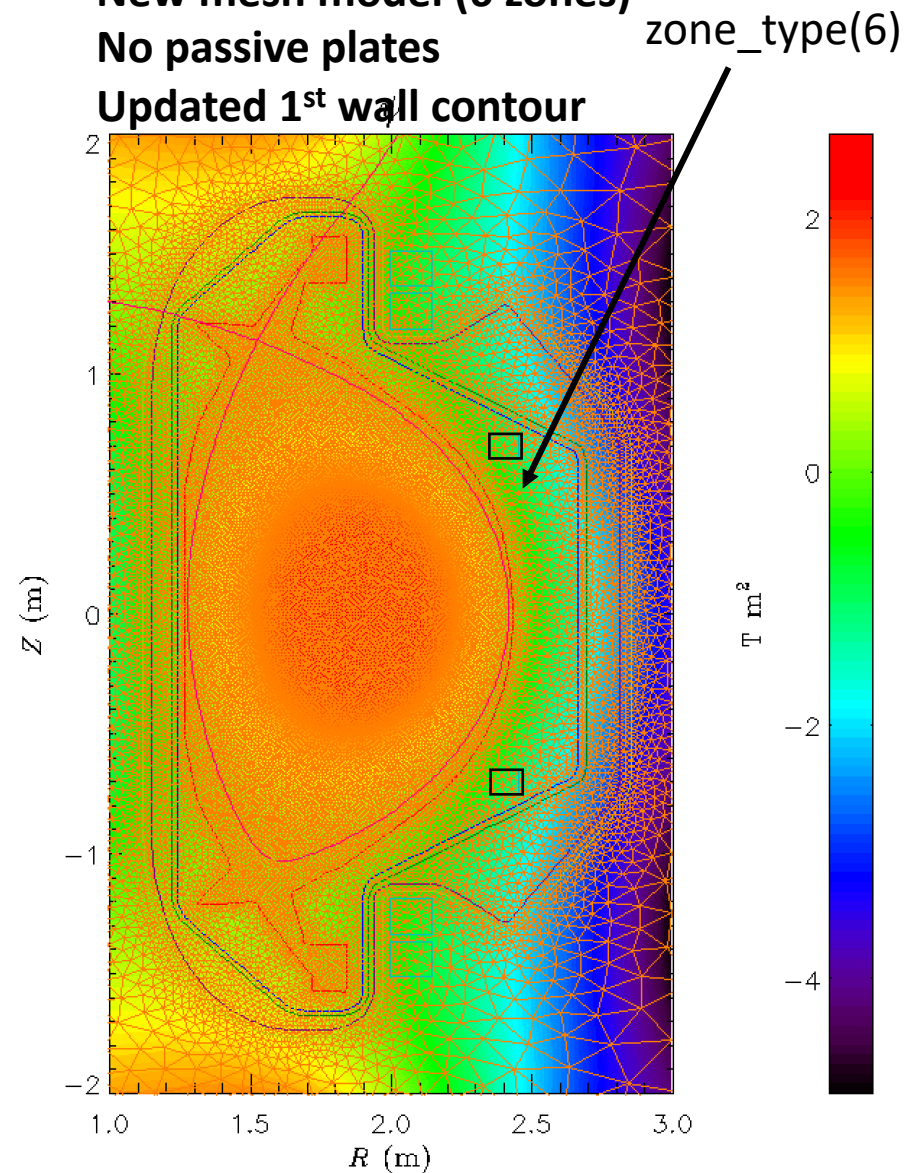


**S2**

**New mesh model (6 zones)**

No passive plates

Updated 1<sup>st</sup> wall contour

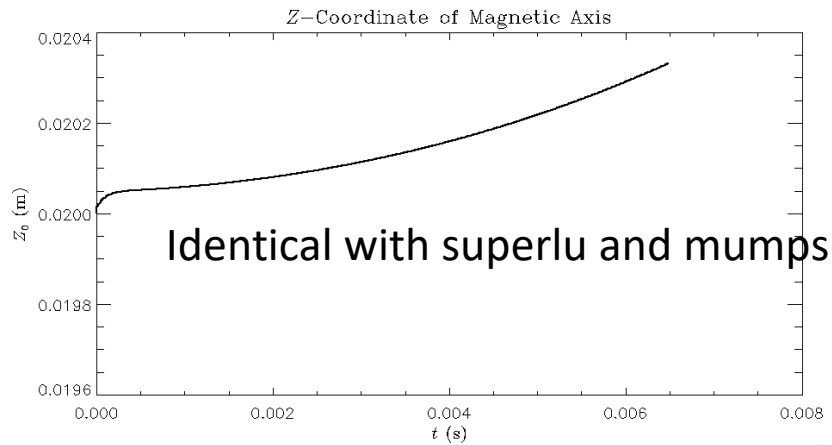


**Shifted equilibrium is different in each case because VS coils were not used in S2**

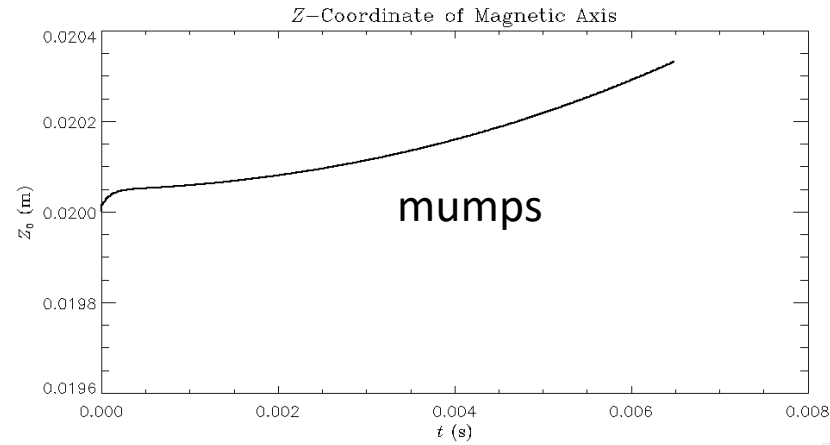
# S1 (old model) behaves well in all systems

- Initial equilibrium shifted 2 cm, using VS coils for that
- Zone\_type(8) = 3 → set as vacuum region

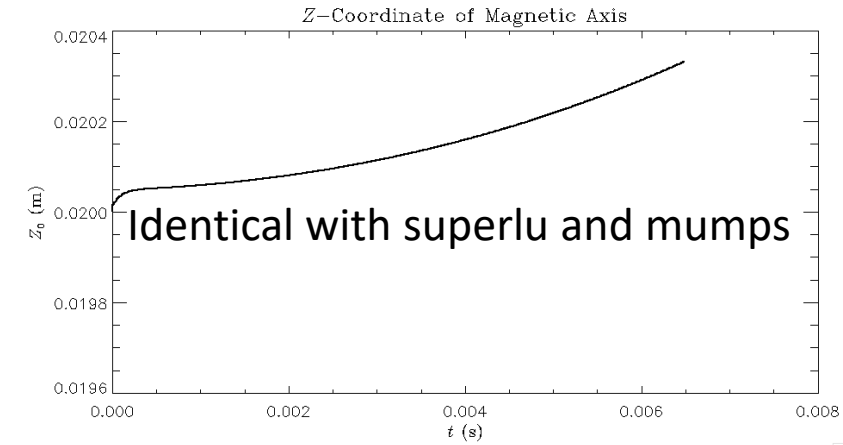
Perlmutter



MIT



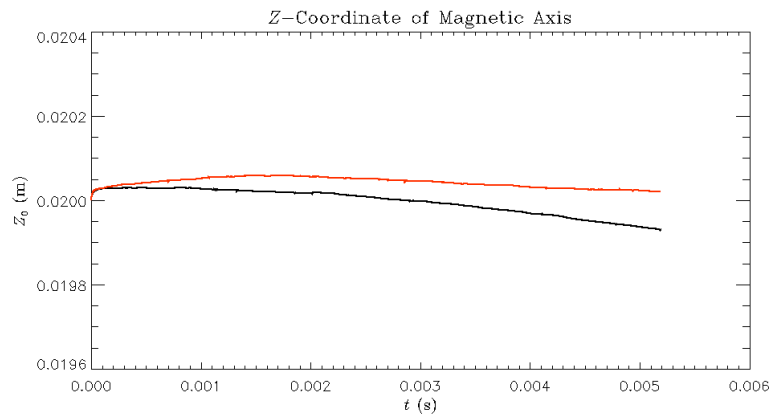
STELLAR



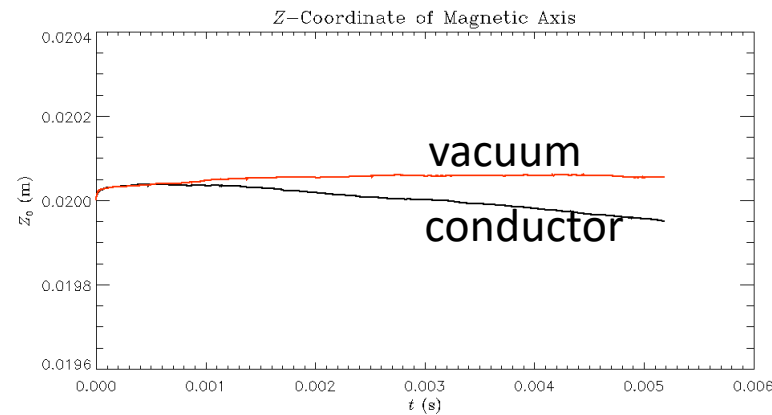
# S2 model shows differences and wrong behavior

- Initial equilibrium shifted 2 cm, **NOT** using VS coils
- `Zone_type(6) = 2` → set as a resistive wall region (with high resistivity)

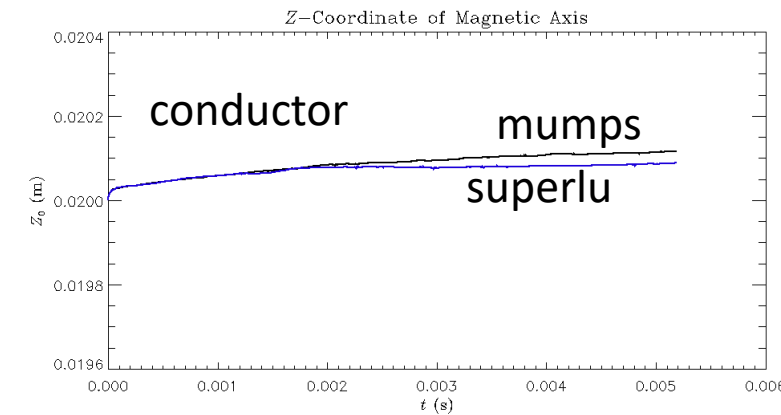
PERLMUTTER



MIT



STELLAR

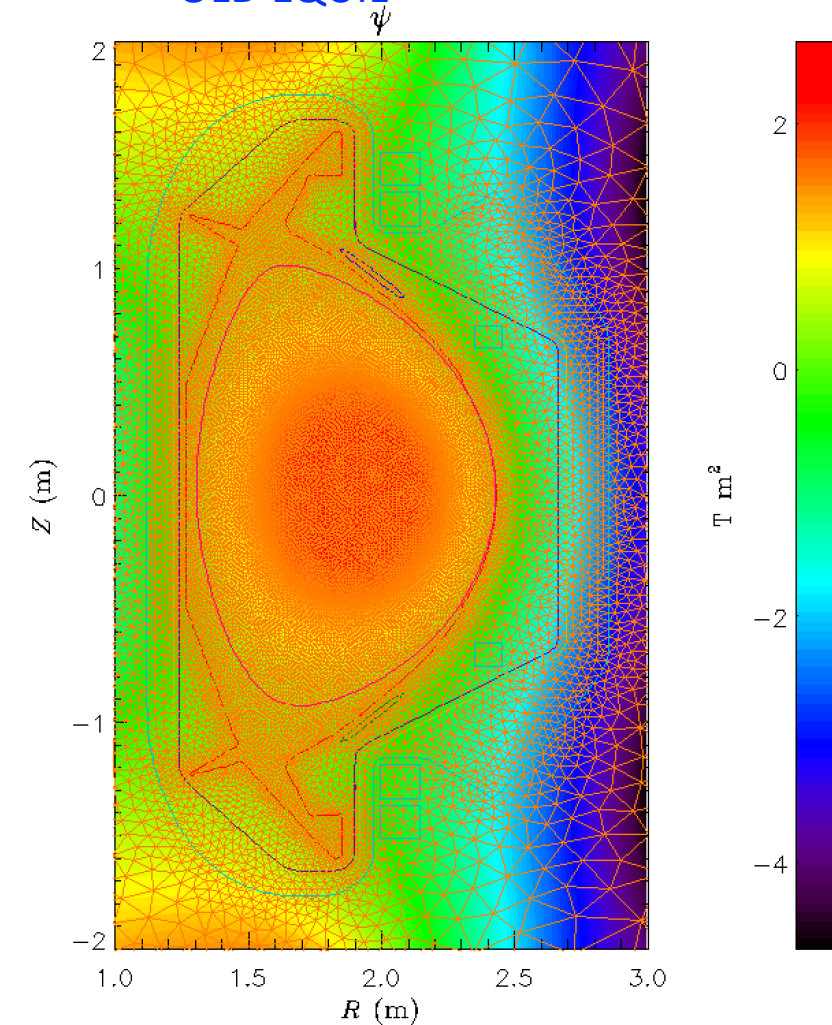


- **RED** curve:
- reverted `zone_type(6) = 3` as vacuum

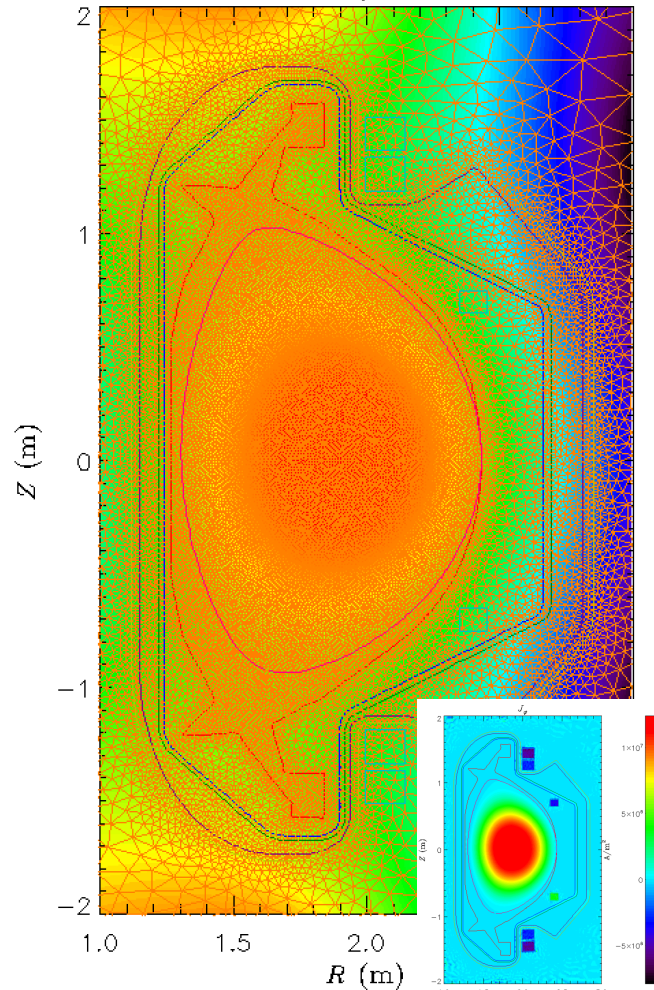
**STELLAR shows a much better behavior compared to Perlmutter and MIT.**

# From the old mesh/equil to the new mesh/equil

OLD MESH/  
OLD EQUIL



NEW MESH/  
OLD EQUIL



NEW MESH/  
NEW EQUIL

