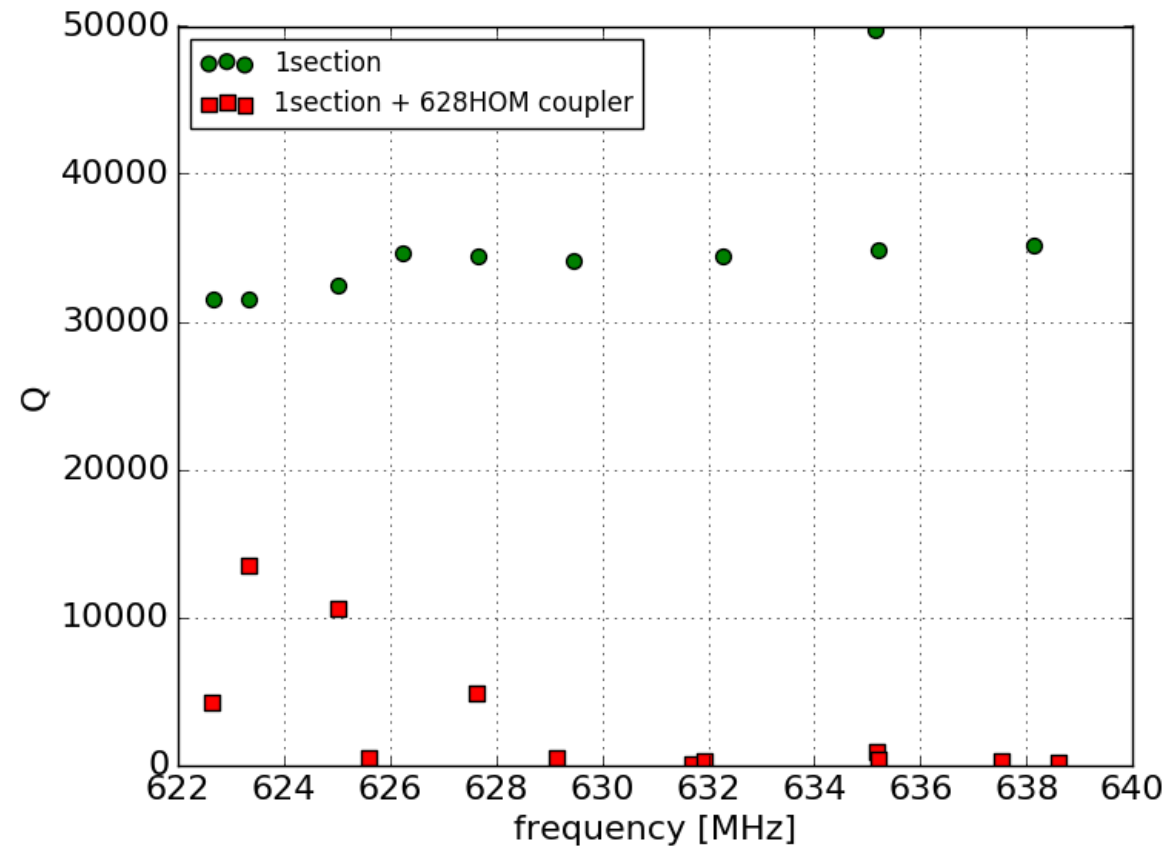


Work on new HOM damping
scheme for 3-section cavity

Damping on single section

- 628MHz HOM coupler performs well on a single-section





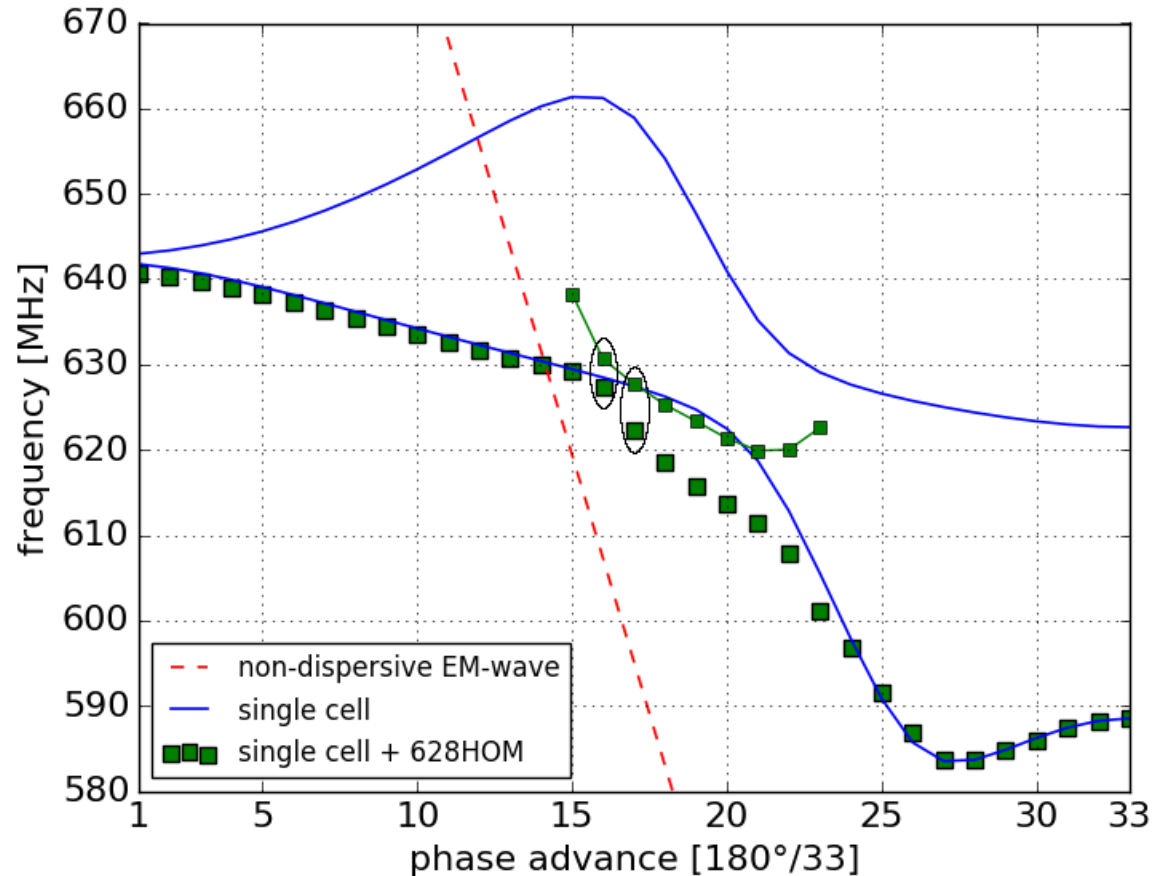
Situation on 3-section cavity

- Present damping scheme is used

3-section cavity + present 628 MHz HOM damping scheme				
f [MHz]	Q	R/Q [Ω]	R [k Ω]	pA
627.7	5600	12	34	$17\pi/33$
629.2	450	190	43	$23\pi/33$
630.3	400	270	55	$14\pi/33$

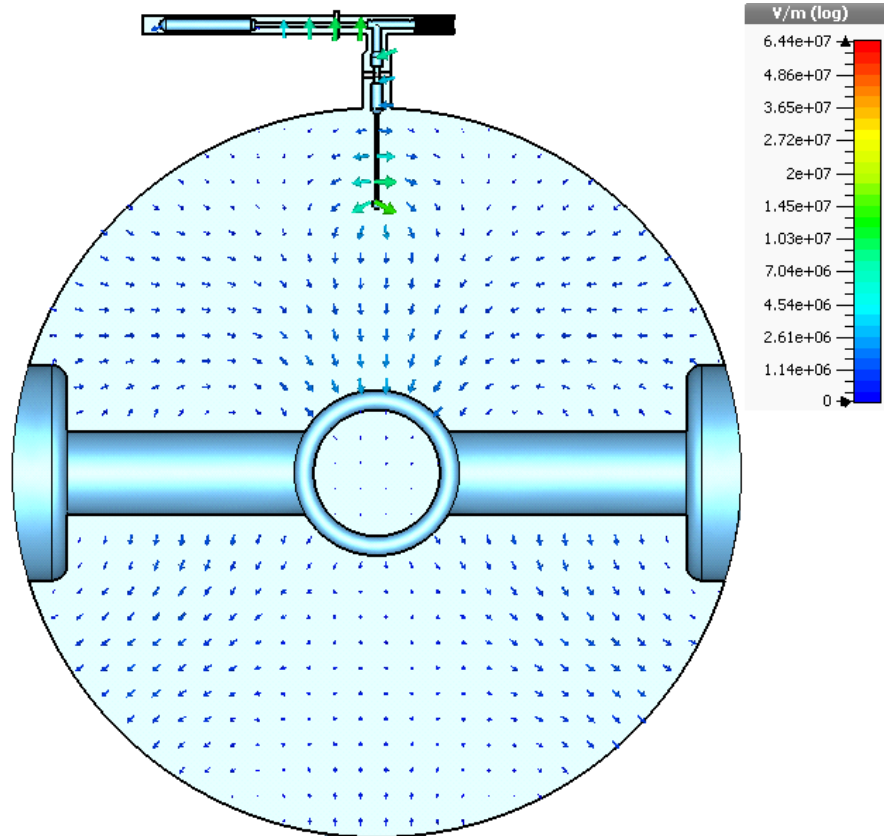
Modes in a 3-section cavity

- The addition of 628MHz HOM-coupler adds additional modes



Split mode

- Damped $17\pi/33$ mode (632MHz)



- Undamped $17\pi/33$ mode (627MHz)

