

Proposal Title (exactly as it appears on submission): The Detailed Physical Structure of the Circumgalactic Medium

Year 1				
Milestone	Details	Dates	Status (renewals only)	
RM.A Develop "fiducial" turbulent CGM model and run resolution study, including first petascale simulation of the CGM.	Resources: Titan Node hours: 0.5 M Filesystem storage (TB and dates): insert text, 01/19 - 03/19 Archival storage (TB and dates): 03/19 - 03/20 Software Application: Cholla Tasks: insert text Dependencies: N/A	01/19 - 03/19	N/A	
RM.B Run suite of moderate resolution turbulent box simulations to explore relevant parameter space.	Resources: Titan Node hours: 0.7M Filesystem storage (TB and dates): insert text, 04/19 - 06/19 Archival storage (TB and dates): 06/19 - 06/20 Software Application: Cholla Tasks: Dependencies: N/A	04/19 - 06/19	N/A	
RM.C Run additional extreme resolution models (as informed by parameter study) to produce a state-of-the-art suite of numerical simulations.	Resources: Titan Node hours: 1.5M Filesystem storage (TB and dates): insert text, 07/19 - 09/19 Archival storage (TB and dates): insert text, 09/19 - 09/20 Software Application: Cholla Tasks: Dependencies: RM.A, RM.B	07/19 - 09/19	N/A	